Project description REL. DATABASE PROJECTS

Microsoft development, database development and database administration, web portals and OO development…

Microsoft software developer, software architect, project manager, requirement analyst and consultant. Database development in the area of Microsoft SQL Server as well as administration of complex database systems and specialist for complex database migrations in clusters. Database development using Oracle and PL SQL as well as performance tuning in the Oracle environment. Specialist for the creation of complex ETL lines in the area of SQL Server using T-SQL and SSIS. Data warehouse developer, architect and consultant in the area of Microsoft SQL Server using T-SQL, SSIS, SSAS and SSRS..

PERSONAL DATA

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MARKET PERFORMANCE

My CONTRIBUTION
Due to my several years of profound experience in the fields of requirement engineering, design of applications, databases and multi-layer architectures, development, realisation and implementation, support and maintenance, in the environment of MICROSOFT, DATABASE AND DWH DEVELOPMENT, I am able to identify quickly and competently with your project and to implement organisational and technical optimisation approaches professionally. Due to my flair for new technologies and my high level of technical understanding, I can professionally implement new solution ideas into your existing system landscape. As a strong communicator I support the flow of information between all project participants and as a team player I enrich your development team.

My PROFILE
With more than 30 years of professional experience and more than 100 realised projects in the functions of software developer and consultant for IT projects in the three areas of Microsoft development, database development and database administration, I can be an enormous enrichment for your team as well as for your project. With my commitment and my professional competence I can significantly contribute to a goal-oriented and professional completion of your project. Below is an excerpt from my technical knowledge and experience of the past 30 years:

Database development and consulting

– Database Consultant / Architect and Developer for Microsoft SQL Server, Oracle, Sybase and Postgre-Databases.
– Data Warehouse Consultant / Architect and developer with profound technical knowledge.
– Profound expertise in SQL, T-SQL, SSIS, SSAS OLAP Cubes Design, Stored Procedure, Function Develop ment, ETL with SQL Server Integration Services (SSIS), Reporting with SQL Server Reporting Services (SSRS), SQL Server Analysis Service CUBEs, (SSAS), database optimisation and data migration.
– Maintenance and support of multi-tier database systems and database applications.
– Profound expertise in the areas of SQL, PL/SQL, SQL Navigator, SQL*Plus, iSQL*Plus, Stored Procedure, Function, Developer Suite, Enterprise Manager, Forms, Reports, SOA, SHELL Warehouse Builder, Data Integrator, Business Objects, BODI, SQL*Loader, Statement Tuning, Instance Tuning, Essbase.

Database administration Microsoft SQL Server
– Installing and configuring SQL Server.
– Configuring SQL Server databases and storage.
– Planning and implementing a backup strategy.
– Restoring databases from backups.
– Importing and exporting data.
– Monitoring SQL Server.
– Tracking SQL Server activity.
– Manage SQL Server Security.
– Perform ongoing database maintenance and database optimisations.
– Automate SQL Server maintenance with SQL Server Agent jobs.
– Configure database mail, alerts and notifications.
– Migrate from SQL Server cluster to cluster.
– Migrate all SQL Server internally.
– Cluster to single.
– Migration of a virtual SQL Server cluster.
– Installing SQL Server Virtual Cluster.
– Migration of all SQL Server for customers ARZ.
– Ticket processing.
– Training SSIS, SSAS and SSRS installations.

General
– Logical, analytical thinking combined with a high level of understanding for the technical implementation of requirements.
– Competent in negotiations, convincing and entrepreneurial thinking.
– Very good knowledge of German and English, both spoken and written.

WORK EXPERIENCE RELATIONAL DATABASE PROJECTS

Nov 2020 – Dec 2020 Mann+Hummel, Speyer, Germany
Complex Microsoft SQL Server - migration to a cluster

Due to the technical circumstances of the customer, a direct migration from the existing cluster to the new cluster is not possible. For this reason, during this migration a node of the existing cluster is removed, a local SQL server is created on it and the original SQL server on the cluster is migrated to this local SQL server. This in the form of a pre-migration. Then the new cluster is created and afterwards the databases of the local SQL Server are migrated to this cluster. The reason for this procedure lies in the use of the SUN, which are decisive for the fact that after migration of the cluster, the old cluster environment can no longer be accessed.

- Premigration of the database server on the cluster to a local installation.
- Creating the new cluster.
- Migration of the local installation of the database server to the new cluster.

Jan 2020 – Dec 2020 ARZ Innsbruck
Specialist for Microsoft SQL Server migrations as well as DBA Admin

Supporting a team in a data centre as SQL Server administrator with the main task of carrying out more complex migrations into a cluster for customer-side databases and for internal databases. Additional support in the processing of tickets in the general operation of the databases and the installation of special applications as well as the migration of complex data warehouse environments and the required tools such as SSIS, SSAS and SSRS.

- Install and configure SQL Server.
- Configure SQL Server databases and storage.
- Plan and implement a backup strategy.
- Restore databases from backups.
- Importing and exporting data.
- Monitoring SQL Server.
- Tracking SQL Server activities.
- Manage SQL Server security.
- Knowing data access and data encryption.
- Perform ongoing database maintenance and optimisation.
- Automate SQL Server maintenance with SQL Server Agent jobs.
- Configure database mails, alerts and notifications.
- Migration of all SQL Servers internally.
- Migration of all SQL Servers for customers ARZ.
- Migration from SQL Server cluster to cluster.
- Migration of all SQL Server intern.
- Cluster to single.
- Migration of SQL Server Virtual Cluster.
- Installation of SQL Server Virtual Cluster.
- Migration of all SQL Servers for customers ARZ.
- Ticket handling.
- Training SSIS, SSAS and SSRS installations.
- Consulting function, does not affect 100% workload.

Mai 2020 – Now IBM Kelsterbach

Matrix42, Microsoft SQL Server, T-SQL, Reporting Server

Based on the Matrix42 Workflow Management application, reporting on compliance with SLA contracts is created taking into account IBM's SLA contracts. The source of the data is the Microsoft SQL Server, which serves as the backend of the Matrix42 Workflow Management application. Using dynamic functions, both the reports are generated in Matrix and Github generates the workflows, which automatically generate monthly or temporary calculations for the reports. The following is a small excerpt of the knowledge required for the implementation of this project:

- Create SLA reports in Matrix42 (Microsoft Reporting Server).
- Create workflows in Matrix42 (T-SQL, SQL).
- Create complex queries with T-SQL (T-SQL, SQL).
- Creating complex stored procedures with T-SQL (T-SQL, SQL).
- Creating complex functions with T-SQL (T-SQL, SQL).
- Testing dynamic complex reports (T-SQL, SQL).
- Dynamic complex queries (T-SQL, SQL).
- Dynamic workflow with T-SQL (T-SQL, SQL).

Jan 2020 – Nov 2020 Julius Baer, Zurich

Access, VBA, Microsoft SQL Server – Microsoft Competence

This project can be divided into two main tasks:

TAX software:
Task one: Create an application using Microsoft Access for the calculation and reporting of the TAX calculations for Italy and France. The application includes the import of the tax files taking into account weekends and holidays, the listing of the imported files as well as the possibility to enter remarks regarding the imported files. The second area of the application allows for correction entries in relation to the

imported data and the third area of the application creates a reconciliation between the financial data of the core application and the financial data imported by the system. The application was implemented using Microsoft Access (backend) and the frontend was also provided in Microsoft Access using VBA.

- Creation of an application for the TAX authorities of France and Italy.
- Integration of 40 applications into a MS Access template.
- Development of various applications using VBA, Access.
- Development of various applications using VBA, Access, SQL Server.
- Creation of complex reconciliations using VBA and T-SQL.
- Creating user forms and their functionalities.
- Creating input checks and data reconciliations / synchronisations.

Triple AAA ranking:
Task two: Create an application for Triple AAA to manage the restrictions on the client side. For this purpose, a Microsoft SQL Server was used, which served as the backend, and a Microsoft Access database, which served as the frontend. My scope was the backend development with the following requirements necessary to implement the project.

- Creating queries using Microsoft SQL.
- Create stored procedures using Microsoft T-SQL.
- Create communication interfaces using Filetransfer.
- Create communication interfaces using Jason.
- Creating communication interfaces using XML.
- All communication interfaces were created in the form of stored functions or stored procedures using Microsoft T-SQL.

Jul 2018 – Feb 2020 UBS AG, CTO, SDLC Host based MS Access development
Microsoft Access Developer / Consultant - Microsoft Access, Microsoft Excel, VBA, SQL Server, T-SQL, Jira, SAP, Oracle, DWH, Microsoft SQL Server, SSIS, Alterix

Project SDLC Reporting
The project consists of several databases, which contain the tables needed to import the data, the queries needed to refine the data, the macros needed to execute the workflow, which in turn are started by the Power Shell scripts and in turn call the functions and procedures developed using VBA. Each of these individual databases can be compared to an ETL route. Further databases consolidate the data for reporting with regard to the SDLC reports. Procedure for executing the entire application: Power Shell scripts call the macros, which in turn call the complex VBA logicians for importing the data, cleaning the data and consolidating the data. The entire application was developed using Microsoft Access, VBA and Power Shell.

- Develop a host-controlled MS Access load of data.
- Loading of tables in Alterix and SSIS, T-SQL.
- Loading of DWH tables.
- Loading of Applications data (JIRA, RNOW etc.).
- Output and reporting.
- Creating complex workflows with Power Shell.
- Data synchronisation between different applications (DAP/ADO).
- Data synchronisation between different applications (DAP/ADO).
- Complex SQL queries in MS Access.
- Import of different data sources.

Project Access2Git
The aim of this project is to break down the individual Access applications into their objects, save the objects in the form of text files and import these in turn into Github. This ensures that the individual objects, which in turn form an application, can be properly managed in a version and source code management. Of course, objects can also be obtained from the source code management and thus the applications can be formed again from the individual objects. It is also possible to merge objects

from different versions into a new version. The entire application was developed using Microsoft Access and VBA.

- Administration of the MS Access databases involved (approx. 20 DB).
- Object-related backup and restore of all MS Access databases.
- Object-related creation of versions and rebuild of applications.
- MS Access object output to GITHUP.
- Creation of the logic by means of VBA.
- Creating the user interfaces in Access using VBA.
- Creating the input validations using VBA.

Project MAQualyfication
The application is already a dynamic Excel, which performs various calculations based on the self-assessment of the employees and subsequently performs a graphical evaluation regarding the self-assessment of the employees of the GROUP CTO department of UBS AG. The application was developed using Microsoft Excel and VBA. The data is entered manually in a template.

- Create dynamic tables using VBA.
- Calculate scores using VBA.
- Output of evaluations by means of dynamic diagrams.
- Synchronisation of data using VBA.

Project ProjectCallculation
The application was realised with Microsoft Excel and Microsoft VBA. Data is loaded from the systems, refined and calculated. Dynamic tables are created in which both hours and costs of the individual bookings of the systems are calculated against the effective figures of the responsible departments. Complex calculations are implemented to create the dynamic tables and to reconcile the financial data as well as the time data and the results are output in various reports, which are exported as individual Excel tables.

- Create dynamic tables using VBA.
- Calculate financial data using VBA.
- Display the calculated data in the form of dynamic tables.
- Exporting the dynamic tables as reports for the individual department heads as well as for the responsible persons in Finance.

Nov 2019 – Feb 2020 NEF, Germany

Microsoft Access, VBA, SQL Microsoft SQL Server / Consultant

Adapting and extending an existing Microsoft Access solution. Originally, four files were imported, the data was refined and then evaluated. The evaluations concerned the distribution of the company NEF in Germany. The user interface already existed, realised with Microsoft Access and VBA; this was made a bit more modern and clearer and the new functionality was integrated. In the new application, only two files are now imported and the data is evaluated on the basis of the two files. Again, the import is done by VBA, the user interfaces have been adapted to the two new files and a lot of plausibility logic has been implemented. The evaluations concern the warehouse stocks and the warehouse stock values of the individual employees in the distribution.

- Adapt and extend an existing application.
- Import of 4 Excel files (network).
- Consolidate data (Excel / VBA).
- Complex calculations in temporary Excel tables.
- Creating dynamic result tables.
- Creation of dynamic tables (overviews in the respective tables).
- Integration of complex effort and time calculations.
- Integration of complex financial calculations.

Sep 2019 – Feb 2020 Celanese, Utzenfeld

Microsoft Access, VBA, Microsoft SQL Server - Developer / Consultant

Maintaining and adapting existing applications in Microsoft Access and Microsoft Excel to new business requirements. Documentation of existing applications, clear design of applications as well as technical documentation and user manuals.

Inventory:
Complete new solution of the inventory application for recording the inventory of the two sites Utzenfeld and Wehr. The new applications were built on the logic of the existing old applications, but the user guidance was implemented in the form of a process. The new application was realised using Microsoft Access, SQL, VBA.

Labels:
Adaptation of the label printer using List and Label and the associated Access database. Setting up the label printers and commissioning the application. The application was created using Microsoft Access, VBA and Microsoft Access forms as well as various queries implemented using SQL.

Various applications:
Creation of a technical documentation, creation of a user manual, recording of the business processes as well as revision of the existing, partly deficient VBA code. About ten applications were revised in the area of administration and production increase.

Evaluations:
Creating various evaluations using SQL in the Microsoft SQL Server, exporting the data to a Microsoft Excel application and transferring it to the corresponding business unit. These are mainly ad-hoc reports and evaluations.

- Adapt and further develop various Access applications.
- Adapt and further develop various SQL Server applications.

Oct 2018 – Nov 2018 Mann+Hummel, Speyer, Germany

SSIS packages analysis for migration SQL Server 2010 to Microsoft SQL Server 2018 - MSSQL T-SQL, SSIS, ETL

Developing a concept for the cost-effective migration of 600 SSIS packages, consisting of an analysis of all existing packages, dividing the packages into three groups, underpinning the concept including calculating the time needed for migration, and developing several options for a cost-effective implementation of the entire migration. The implementation is partly done with in-house staff, with students and with migration specialists. The concept also takes into account performance optimisation of the individual SSIS packages.

- Analysis of all existing packages (600 SSIS packages).
- Develop a concept for the most cost-effective migration, taking into account:
- Performance increase for DWH packages.
- Migration of SAP packages.
- Migration of own components.
- Migration of standard components.
- The 30-page analysis contains the complete procedure for the 600 SSIS packages.

Feb 2018 – Mer 2019 Volkswagen, Wolfsburg

Microsoft SQL Server DWH Developer / Consultant - Microsoft SQL Server T-SQL, SSIS, SCCM

The aim of the project is to generate reports based on a data warehouse to be created, which evaluates the data from Microsoft SCCM. For this purpose, a concept is created and then the relevant data from SCCM is loaded into the data warehouse using ETL routes implemented with Microsoft SQL (T-SQL) and Microsoft SSIS. After loading the data, the Enterprise DWH is created and the entire

reporting is implemented using SSRS.

- Develop DWH load procedures using SQL Server.
- Loading the staging tables.
- Loading the DWH tables.
- Implementing the VAULT schemas.
- Creating the ETL processes (stage).
- Modelling of the schemas based on the business requirements.
- Clarifications with the business.
- Loading of data from SAP.
- Data refinement and data mapping.

Jan 2017 – Nov 2017 Bühler, Uzwil (40% - 60%)

Microsoft SQL Server Admin and ETL Developer - Microsoft SQLServer, T-SQL, Admin

The company Bühler operates 2000 SQL servers worldwide. The main task in this project was to administer this SQL server in a ticket-oriented manner. This was done in a team of three employees who were responsible for the administration of this 2000 Microsoft SQL Server. Among other things, the following activities were carried out:

  - Install and configure SQL Server.
  - Configure SQL Server databases and storage.
  - Plan and implement a backup strategy.
  - Restore databases from backups.
- Importing and exporting data.
- Monitoring SQL Server.
- Tracking SQL Server activities.
- Manage SQL Server security.
- Perform ongoing database maintenance and optimisation.
- Automate SQL Server maintenance with SQL Server Agent jobs.
- Configure database mails, alerts and notifications.
- Install SQL Server Virtual Cluster.
- Ticket handling.
- SSIS, SSAS and SSRS installations.
- Creation of various concepts in the area of Microsoft SQL Server.
- Requirement engineering.
- Loading and cleaning of data using T-SQL.
- Creation of ETL processes using SSIS packages or T-SQL.
- Data refinement and data mapping using T-SQL.
- Loading of data into the surrounding systems.

Feb 2017 – Mar 2017 ElipsLife, Opfikon

Microsoft SQL Server DWH Developer - T-SQL, ETL

Creation of ETL routes for filling the financial data warehouse of the company ElipsLife. The tables of the data warehouse are first filled in the stage area and then, after transformation, in the area of the data warehouse. Both the stage database and the data warehouse are filled by calling stored functions that were implemented in T-SQL. Since the data warehouse is a data vault schema, the filling of the tables of the data warehouse is done according to exact rules. Only one statement is provided for filling the hubs, links or satellites. All three are always filled in the same way, only the names of tables and attributes change. The task is to write dynamic stored procedures for filling these tables, test them, document them and integrate them into the system. The development will be implemented using Microsoft SQL Server 2016 and Microsoft T-SQL. Some functionalities are implemented using Microsoft SSIS packages; these are also tested and documented.

- Develop DWH load procedures using SQL Server.
- Loading the DWH tables.
- Implementing the STAR and the VAULT schema.

- Creating the ETL processes (stage).
- Modelling of the schemas based on the business requirements.
- Clarification with the business.
- Loading of data from SAP.
- Data refinement and data mapping.

Okt 2016 – Jan 2017 Raiffeisenbank International, Vienna

PostgreSQL Developer - Postgres SQL and SQL

The project mainly involves the creation of complex dynamic queries in the area of reporting. These are implemented using a Postgre database and PostgreSQL. The main focus is on the creation of ad-hoc reports and evaluations, which are triggered automatically and time-controlled by jobs. The project implements the state requirements regarding the reporting system and the result is the data required by the state regarding the reporting system for banks.

- Creation of very complex dynamic queries for the preparation of data for the for the reporting system in order to ensure the reporting obligation of account transfers to the the Austrian state.

Apr 2015 – Sep 2016 Swiss Life, Zurich

Microsoft SQL Server Developer - T-SQL, SSIS

Creation of ETL routes for filling the internet platforms of the company Swisslife. The tables of the databases behind the internet platforms are filled, but also the data of the data warehouse. Depending on the data source, a preload or a load is first made using stored functions in T-SQL. Subsequently, the data is transformed a first time and loaded into the load structure. Subsequently, the data is refined or transformed a second time and the data transformation is carried out using complex stored functions. Afterwards, the data is loaded into the internet databases on the one hand, and into the data warehouse on the other hand, taking into account the key values. The task is to write dynamic stored procedures for filling these tables, test them, document them and integrate them into the system. The development will be implemented using Microsoft SQL Server 2012 and Microsoft T-SQL. Some functionalities are implemented using Microsoft SSIS packages, which are also tested and documented.

- Requirement engineering.
- Creating the concepts.
- Expanding and creating the data models.
- Extracting and loading all data for the internet portals MyLive and MyWorld.
- Creating SSIS packages.
- Creating stored procedures (T-SQL) for transforming the data.
  Data preparation is continuously adapted to the new requirements of reporting adapted.

Oct 2012 – Jan 2016 Bohmann-Laing, Garrel

DWH/BI Developer/Consultant - Microsoft SQL Server, SQL, T-SQL.

Creating a data warehouse as a management tool for old people's homes and nursing homes. For this purpose, functions stored in Microsoft SQL Server are written using T-SQL, which extract the data from various sources, the extracted data are refined or transformed and then brought into the correct structure in order to be able to fill the standing schema of the data warehouse. Subsequently, the cubes are formed using SSAS and a report set is set up on the cubes using SSRS. The ETL routes are developed as stored procedures using T-SQL and SSIS. The cube is developed and assumed using SSAS and the reporting is created using SSRS.

- Project: Analysis of a DWH, implemented using SQL Server (SSIS, SSAS, SSRS).
- Requirement engineering and creation of the concept.
- Creation of the ETL processes (SSIS).
- Creation of the cubes (SSAS).

- Creation of reports and ad-hoc evaluations (SSRS).
- Training of the internal SQL developers for the creation of ETL processes, cubes, evaluations and reports.
- Creation of a concept for the application COSY (new CURALYS).
- Windows application using C#.
- Evaluations with Tableau.

Sep 2013 – Dez 2015 IBM Schweiz, Basel

ETL Developer - Microsoft SQL Server, T-SQL, SQL

This project is about loading the customer data from IBM Europe into the corresponding databases. This is done by means of stored functions, which are implemented in T-SQL. Parallel to the implementation by means of stored procedures, various ETL routes are also developed by means of SSIS. The application already exists and new customer requirements are being integrated.

- Requirement engineering.
- Creation of the concepts.
- Responsible for extracting and loading all European customer data.
- Data is extracted from various data sources using SSIS and loaded and loaded onto the DWH without transformation.
- Using stored procedures (T-SQL), the data is prepared for reporting after loading
- Data preparation is continuously adapted to the new needs of reporting. reporting needs.
- The same applies to the underlying database schemas.
- Creation of reports using Cognos.

Apr 2014 – Apr 2015 Deutsche Bank, Frankfurt

Leaver Tracker – Microsoft SQL Server, Microsoft Excel, VBA

Create an application using Excel to calculate the cost savings of staff reductions at Deutsche Bank. Not only wage costs are considered when calculating the savings, but also severance payments, additional payments and all other costs that are incurred. The data calculated in this way is made available in various reports for senior management. The application is implemented using SQL Server as the data source and Microsoft Excel as the reporting tool. The application was programmed using Microsoft T-SQL and SQL as well as Microsoft VBA. All legal requirements had to be taken into account.

- Creating the application for monitoring the Opex Initiative of Deutsche Bank in Frankfurt.
- The goal is to save 4.5 billion euros by the end of 2015 through staff reduction/optimisation.
- The Leaver Tracker application monitors all necessary processes.
- Monitoring of the OPEX programme of Deutsche Bank.
- Application development (VBA, Excel, T-SQL) with SQL Server.
- Data sources (ETL, SSIS, T-SQL), DWH (SQL Server, Cognos).
- Creating and extending the data model (DeZign).
- Documentation of the data flow and the application.
- Creating specifications for new requirements and implementing them in the development team.
- Integration Services (SSIS).
- Integration Services (ETL).
- Data refinement T-SQL
- Data mapping T-SQL.
- VBA application development incl. client/server solutions with MS Excel.

Jan 2014 – Apr 2014 Postbank, Bonn

Datenmanagement - Microsoft Excel, Microsoft Access, VBA

Collaboration in the project team of a large rollout of the Postbank. The aim was to monitor the Windows migration of the entire Postbank. For this purpose, several applications were implemented using Microsoft SQL Server and Microsoft Excel and Microsoft Access. Status files were imported, status data were evaluated and a consolidated status could be published daily. This made it possible to monitor the large-scale project. The migrated computers and the software on the individual devices were of particular interest. Not only the migration of the standard software was monitored, but also the migration of special programmes, some of which were migrated manually to the new environment. Status files in Microsoft Excel or status files from Microsoft Project were used as data sources, which were imported into the Access database.

- MS Access and VBA development to monitor the stages for a large infrastructure project.
- Reading out the data from the various Postbank systems.
- Based on the data analysis, the current status of the migration work can be can be determined.
- Microsoft Access application developed.
- Import of various files from the Postbank's systems.
- The data is refined and subsequently analysed.
- Daily tranches are formed with the workplaces to be migrated.
- The migration of the individual workstations is monitored.
- Workstations may only be migrated if they comply with certain rules.
- Creation and expansion of the data model (DeZign).
- Documenting the data flow and the application.
- Creating specifications for new requirements and their implementation.

Sep 2012 – Jan 2013 Liebherr, Germany

Migration DWH from Cognos 7 to Microsoft SQL Server

The aim of the project is to migrate a Cognos data warehouse to Microsoft SQL Server. The ETL routes were implemented using stored procedures in T-SQL or SSIS packages were created. The data cubes were implemented using SSAS and the reports were realised using SSRS. Thus, in 2012, the entire data warehouse was converted or migrated from Cognos to Microsoft SQL Server. The task was to support and train the database developers at Liebherr so that they could successfully implement this migration. In special cases, development work was also carried out on more complex tasks that could not be solved by the teams.

- Requirement engineering and creation of the concept.
- Consulting and training of internal employees for the conversion of a Cognos DWH to a Microsoft SQL Server DWH.
- Creation of the ETL processes (SSIS and T-SQL).
- Creation of the cubes (SSAS).
- Creation of reports and ad-hoc evaluations (SSRS).

Jun 2011 – Aug 2012 It–gr GmbH, Feldbrunnen

Acquisition software - Microsoft Access, VBA, SQL
Double function as project manager

Creation of an accreditation software for the company it-gr GmbH, which automatically supported the company in the activation of projects. The Access application searched the internet on various platforms for suitable projects, evaluated the competing offers and thus enabled the submission of an optimal offer. The system was developed using Microsoft Access, VBA and SQL.

- Creating an application for the acquisition of projects for the company it-gr GmbH.
- Customer data is recorded by means of a user interface.
- Costs and duration are calculated.
- Based on the calculated values, all necessary documents such as offers,

specifications, project planning (Microsoft project), order and contract are created using VBA code.
- The database is realised with Microsoft Access, the logic with VBA.
- The synchronisation of the database with MS Project is realised using VB (OCX).
- All required documents are created in Word using VBA (from Access) and stored in a file system.
- Various graphics are embedded in the documents.
- Interfaces to Microsoft Outlook, Microsoft Word, Shugar will be implemented.
- The automated sending of e-mails is implemented using VBA and stored in the database.
- Testing and documentation (user and technical).

Jun 2011 – Sep 2011 Deutsche Telecom, Frankfurt

Oracle DB Developer - Oracle, PL-SQL

Performance tuning of the Intercall database of Deutsche Telekom. The Intercall database processes the roaming call data of Deutsche Telekom customers worldwide. The roaming times are processed, which are ultimately decisive for the roaming amount on each customer's bill. The task was a complete performance tuning of this database. The database was developed using Oracle and PL SQL.

- Stabilising the existing application and increasing the performance of the existing application.
- Writing efficient SQL statements (PL-SQL).
- Memory optimisation.
- Reduce hard disk access.
- Optimise existing PL-SQL code.
- Testing and documentation (user and technical).

Dec 2010 – Aug 2011 Fischer, Neunhochform

Devisensoftware – Microsoft Access, VBA, SQL

Creation of a foreign exchange software using Microsoft Access, which displayed the smallest exchange rate changes in real time and triggered corresponding actions depending on the exchange rate changes. The system was developed using Microsoft Access, VBA and SQL.

- Creating a foreign exchange calculation software using Microsoft Access 2010 and VBA.
- Data is obtained in real time from trading and price changes (rising or falling) are analysed.
- Differential calculation is used to determine the graph and the trend and to establish the tendency.
- In this way, the current price change in relation to the previous price change can be and the possible return can be calculated.
- The project is realised with the help of Microsoft Access 2010.
- Start with MS Access 2000 and subsequent migration to Microsoft Access 2010.
- Testing and documentation (user and technical).
- Translated with www.DeepL.com/Translator (free version)

Oct 2009 – Nov 2009 Sulzer Metco, Wohlen

Chart Sulzer Metco - Microsoft Access, VBA, VB 6.0
Double function as project manager

Creation of an addin using Microsoft VB 6.0 for the provision and calculation of graphical diagrams in which complex interpolations are calculated to complete the diagrams. The addin was developed for a Microsoft Access database of the company Sulzer Metco and is used in forms and reports of the Microsoft Access application.

- Graphical evaluation of the production data of Sulzer Metco in Wohlen.

- Special graphics are displayed and calculated with the help of production data. calculated.
- The project is realised with Microsoft Access 2000 and Microsoft Visual Basic 6.0.
- The graphics are calculated and drawn on the basis of the data.
- Missing data are determined and entered by means of interpolation.
- Zero points, turning points and tendencies are determined.
- In this way, the daily, weekly and monthly production data can be calculated and analysed as well as graphically displayed.
- Testing and documentation (user and technical).

Apr 2007 – Oct 2009 Kisotec AG, Zürich

Kisotec K3 Software - Microsoft Access, VB .NET, SQL
Double function as project manager

Implement a software to manage the kitchen of a restaurant. This software is not about managing a restaurant or a hotel, but about managing all areas in and around the kitchen. Microsoft Access is used as the backend and the frontend is implemented using VB .NET.

- Creation of a kitchen management software for the company Kisotec in Zurich.
- With the help of the application created using Microsoft Access 2000 and VB.NET, entire kitchens in restaurants and canteens can be controlled and monitored.
- The application helps chefs with the complete administration of the kitchen.
- A compact solution for kitchen organisation, kitchen administration and kitchen cost control.
- Coast Control, Avor, Staff Coaching, Staff Administration, Organizer, Communication, Info.
- Testing and documentation (user and technical).
- Test version can be obtained via downloads under link Kisotec

May 2007 – Nov 2007 Converium AG, Zürich

SQL Server Developer - Microsoft SQL Server, T-SQL, SQL

Integration of various risk calculations and risk analyses in cooperation with the actuaries of the company Converium (large reinsurer, today SCOR) in the form of stored procedures in SQL Server. Implemented using T-SQL and SQL.

- Implement calculation functions for risk calculation.
- Implementation of the specifications on the part of the business (integration of risk analyses using T-SQL).
- Making technical clarifications and implementing internal evaluations. evaluations.
- Implementing complex risk calculation for the individual business business areas.
- Mathematicians define complex logic to be applied to the data.
- Implement minor changes to the data model.
- Generate new reports for the relevant committees.
- In rare cases, customise VB user interfaces.

Jan 2007 – Nov 2012 shs–g AG, Feldbrunnen

Signature Solution Microsoft SQL Server to ORACLE

In cooperation with UBS AG, we are creating a standard application for entering signatures in the signature register and publishing them on the Internet. The aim is to be able to offer the signature solution created for UBS AG to other companies in the form of a standard solution. For this purpose, the system was standardised on the basis of Oracle, JBOSS, DROOLS and JBPM. Drools makes it easy to define the rules and JBPM ensures the correct execution of the workflow.

- Develop in cooperation with UBS AG a standardised application for the generation and management of physical signatures of employees authorised to

sign, taking into account internal and legal requirements.
- Multi-layer technology, Oracle database, logic implemented using PLSQL (graphical generation of stored procedures - worldwide patents).
- Integrated security layer.
- Ensure flexibility through JBOSS (JBOSS Application Server, Apache Tomcat, JBOSS JBPM, JBODD Cache, JBOSS Eclipse IDE, JBOSS Portal, JBOSS Drools, Hypernate, JBOSS Transaction).
- Project management, project leadership, project monitoring, team leadership.
- Requirement Engineering.
- Basic development (Java).
- Database development (Oracle, PL/SQL).
- Automated testing (HP QTP).
- Documentation (user and technical).

Jan 2007 – Nov 2012 UBS AG, Zurich

Signs from Microsoft SQL Server to Java and ORACLE

Migration of the prototype database compiler created in 2003-2006 from Microsoft SQL Server to Oracle, Jboss, Drools and JBPM. The database compiler is still the core of the application. With the help of the compiler, the workflows for leaf data processing are created and stored in the database in the form of stored functions or procedures (PLSQL). However, standard products such as Drools are now also used for the application's set of rules and JBPM for the timed execution of the workflows. The user interface is migrated from Microsoft VB to Java. A data migration from Microsoft SQL Server to Oracle is also taking place. The various tools for process monitoring and fully automated signature clean-up are left in C#, only the logic is adapted to the new infrastructure.

- Development of a UBS AG internal application for the generation and administration of physical signatures of employees authorised to sign, taking into account internal and legal requirements.
- Multi-layer technology, Oracle database, logic implemented using PLSQL (graphical generation of stored procedures - worldwide patents), integrated security layer implemented using Oracle, PL/SQL and Java.
- Responsibility project management, project planning.
- Requirement engineering.
- Creation of specifications, adherence to deadlines, resource planning and project monitoring, team leadership and employee management (25 employees from 2003 to 2012, project volume > 10'000'000.00 SFr.).
- Migrated version 2.0 (SQL Server, Transact SQL, VB) to Oracle, PLSQL and Java.
- Data modelling, database development (Oracle, migrated from SQL Server) and the implementation of logic in PLSQL (migrated from Transact SQL). Migration from MS SQL Server to Oracle 10g.
- Automated testing (HP QTP).

Aug 2006 – Apr 2007 Credit Suisse, Bern

Data model for proof of own funds - Microsoft SQL Server, ERWIN

Creation of the relational data model and transfer of the logical data model into the physical data model for the Microsoft SQL Server database with regard to the equity capital statements of Credit Suisse, implemented using ERWIN.

- Analyse the given task.
- If necessary, clarify with the business.
- Identify relevant objects with all relevant properties and the relevant relationships.
- Formulate relationships graphically and textually.
- Map the conceptual database schema to a logical database schema.
- Extend the model to include data-related specifications (field formats, identifying search terms, etc.).
- Structure logical database schema according to the rules of the structure given

by the DBMS.
- Check that all necessary data are stored in tables.
- Formulate all specifications in the syntax of the DBMS (ERWIN).

Apr 2005 – Jul 2005 Zürich Versicherung, Schlieren

ZFS - Microsoft Access, VBA, Microsoft Excel, SQL
Double function as project manager

Creation of the ZFS application to manage the tickets of Zurich Insurance. An MS Access solution serves as the database and the frontend and forms are implemented using Access Forms and VBA. Logic is also implemented using VBA.

- Data is transferred directly from the ticket system (Seapine).
- Data is imported into Microsoft Access 2000.
- Various functions regarding data evaluation and other special functionalities such as the duration until a ticket was processed, the costs for processing a ticket or the ranking of processed tickets were newly realised.
- Provision of reports (Microsoft Access 2000).
- Provision of consolidated evaluations (Microsoft Excel).
- Testing and documentation (user and technical).

Mar 2005 – Sep 2005 Hanex AG, Poznan

Oracle, Hyprion Essbase – PL-SQL, SQL, Oracle

Support in the creation of an MSI for the group management of the company HANEX. The basis for this application is an Oracle database. Using Hyperion Essbase, multidimensional data structures are generated and mapped in Excel. The goal was to create consolidated reports for the management from these multidimensional data structures using Microsoft Excel and VBA. The project was implemented using Microsoft Excel and VBA.

- Create a data warehouse with the data from different sources.
- Loading data into the data warehouse using ETL processes.
- Data mining of the long-term data stored in the data warehouse.
- Evaluation of this data warehouse data.
- Loading data from distributed and differently structured datasets.
- Separation of the data used for the operative business.
- Provision of the necessary infrastructure (Oracle, Excel, Essbase Add- In etc.).
- Access to the necessary provided data via Excel Add-In (Essbase).
- Filtering, sorting and refining the data using MS Excel (VBA, Array).
- The Excel reports are created using VBA.
- Creating the queries for data reference (SQL).
- Interface development from SAP to the data warehouse (LDAP, ABAP).

Jul 2004 – Jun 2005 Fuchsgroup, Aarau

Microsoft SQL Server Development - SQL, T-SQL
Double function as project manager

Support of the company Fuchsgroup in the realisation and implementation of requirements in the area of Microsoft SQL Server developments, independent of the application. Complex stored functions and complex dynamic SQL statements are realised.

- iNKA Care Management Developing a performance recording system to complement the worldwide patented systems of the company t-cos GmbH (recording of working hours using biometric data).
  recording by means of biometric data).
- Times recorded by biometric data are assigned to a project or an project or an order using a service catalogue.
- Services defined in this way are in turn assigned to a client via project or order.
- Client management is carried out via client management, which ensures optimal client - client management.
- The time recording data is stored in a Microsoft SQL server.

- The performance data is stored in a Microsoft Access 2000 database.
- There is an automated synchronisation (trigger) between time recording data and performance data.
- The user interfaces are developed using VB.NET.
- Testing and documentation (user and technical).

Feb 2004 – Dec 2005 t–cos GmbH, Feldbrunnen

Justinian – Microsoft SQL Server, Microsoft Access, VBA, T–SQL

Implementation of a service recording for the company t-cos Feldbrunnen. In a first prototype, Microsoft Access is used as the database, and the user interfaces are already developed in this prototype using VB .NET. In version 2, the Microsoft Access database is replaced by a Microsoft SQL server and a large part of the logic is transferred from the user interfaces to the backend in the form of stored procedures and functions.

- Developing a performance recording system as a supplement to the worldwide patented patented systems of the company t-cos GmbH (working time recording using biometric data).
- Times recorded by biometric data are assigned to a project or an order using a service catalogue
- Services defined in this way are in turn assigned to a client via project or order.
- Client administration is carried out via client administration.
- The time recording data is stored in a Microsoft SQL server.
- The service data is stored in a Microsoft Access 2000 database.
- There is an automated synchronisation (trigger) between time recording data and performance data.
- The user interfaces are developed using VB.NET.
- Requirement engineering, data model by means of design.
- Implementation of customer requirements using Microsoft SQL Server, Microsoft Access 2000, Microsoft Visual Basic for Application, T-SQL and Microsoft VB.NET.
- Testing and documentation (user and technical).

Jul 2004 – Oct 2004 Hörservice AG, Zurich

Microsoft SQL Server Development - T-SQL, SQL
Double function as project manager

Support of the company Hörservice AG in the realisation and implementation of requirements in the area of Microsoft SQL Server developments, independent of the application. Complex stored functions and complex dynamic SQL statements are realised.

- Programming a product management system using ASP.Net, SQL and Microsoft SQL Server.
- To monitor product management from the incoming goods of individual parts to the finished products by means of an Internet application and to make important data such as stock levels, deadline situations, etc. available online to the employees in the production sites and in the sales outlets via the Internet.
- Individual areas of the application were already in place and could be partially integrated into the new overall concept.
- Other areas of the application had to be created in consultation with the customer.
- Requirement Engineering.
- Data model creation using Dezign.
- Implementation of the customer requirements using Microsoft SQL Server - T-SQL.
- Testing and documentation (user and technical).

Sep 2004 – Dec 2004 Swiss Life, Zurich

Budget Callculation – Microsoft Access, VBA

Creation of a budget calculation for the individual areas of the company Swiss Life in

Zurich. Data is imported from files, refined and completed, calculated and output in the form of reports in Excel. The application is realised using Microsoft Access, SQL, VBA and Microsoft Excel. A corresponding application is made available for each corporate region and corporate division.

- Revision of the already existing application for calculating the budgets for calculating the individual products.
- Realised using Microsoft Access 97 and Microsoft Visual Basic for Application.
- Extending the existing application for use in all countries.
- Data is imported by means of CVS files through batch processing.
- Data is refined and supplemented.
- Consolidation across the entire company structure based on criteria is possible.
- An export of the data into Excel files is realised for the group management.
- Testing and documentation (user and technical).

Jan 2004 – Mar 2004 Worldspan, Zürich

Template management - Microsoft Access, Office, VBA, VB 6.0
Double function as project manager

Creation of a template management system using Microsoft Access as the backend and Visual Basic 6.0 as the frontend. Templates are managed for the applications Microsoft Word, Microsoft Excel, Microsoft PowerPoint and Microsoft Publisher. The templates are administered in several languages and the administration is user-related. The application is implemented using Microsoft Access, Microsoft VB 6.0 and SQL.

- Dynamic management of Microsoft Office templates.
- It must be possible to add or remove new templates at any time.
- Four languages are to be integrated: German, French, Italian and English.
- Each template is automatically supplemented with the company logo and the sender.
- The application is installed on the computer of the respective employee.
- The database and templates are installed on a company server.
- The application has been designed to be as simple as possible and self-explanatory.
- Additional integration of a Microsoft Outlook interface (templates for e-mails).
- Testing and documentation (user and technical).

Sep 2003 – Jul 2004 Novartis AG, Basel

Lifecycle–Management – Oracle PL-SQL, SQL

Creation of a Microsoft Access application that obtains its data from an Oracle database, calculates the life cycles of the individual products of the company Novartis Pharma and supplements or refines existing data. Subsequently, the data is exported into reports, which are realised in Microsoft Excel. The application is realised using Oracle and PL SQL as well as SQL, Microsoft Access and VBA as well as SQL and Microsoft Excel and VBA. The final product is the finished reports concerning the life cycles of the individual products of the company Novartis Pharma.

- Analysis of the existing application.
- Requirement engineering.
- Data model creation using Dezign.
- Realised using Oracle, Microsoft Access and Microsoft Excel.
- Linked data from Oracle into a Microsoft Access database (Views).
- Creating the queries (SQL) for the data transfer via ODBC.
- Programming of the assistants to create the reports.
- Wizards (VBA) control the filtering, refining and sorting of the data.
- Exporting the data (entire table) to Excel.
- Calculating and forming the graphical representation (VBA).
- Testing and documentation (user and technical).

Jan 2003 – Dec 2006 UBS AG, Zurich

Database compiler for Microsoft SQL Server - SQL, T-SQL
Dual function as project manager

Creating a prototype of a database compiler that is able to convert process-oriented flow structures and flow diagrams into stored functions. The application is used to register the signatures of employees with regard to the legal templates in the commercial register. In doing so, a rule management of more than 2000 active rules is taken into account when registering employees. Not only the database compiler is ordered, but also various auxiliary programmes, which are necessary for the automated process from the mail to the published signature on the Internet. The application is realised using Microsoft SQL Server, SQL, T SQ, .NET and C#.

- Management of physical signatures of employees authorised to sign, taking into account internal and legal requirements.
- Technology: Multi-layer technology.
- Database Microsoft SQL Server.
- Logic implemented using T-SQL (graphical generation of stored procedures - worldwide patents).
- Integrated security layer implemented using Microsoft SQL Server, T-SQL and VB.
- A compiler is developed based on the Microsoft Access prototype.
- Recursive generation of Transact SQL stored procedures.
- At a later stage, the application will be migrated from Microsoft VB to Java and from Microsoft SQL Server to Oracle.
- Automated entry of signatures in the public registers
- Responsible for data modelling, database development (SQL Server) and implementation of logic in Transact SQL.
- Image processing tools in the .NET area (C#, EPF, WCF etc)
- Interface between compiler and database

Jan 2003 – Oct 2004 Swisscard AECS GmbH, Horgen

Development Microsoft SQL Server - SQL, T-SQL, VBA

Support for Swiss Card in the realisation and implementation of requirements in the area of Microsoft SQL Server developments and all VBA Microsoft applications (Access, Excel, Word, Project ...), regardless of the application. Complex stored functions and complex dynamic SQL statements, Excel evaluations, Access tools and much more are realised.

- Support for the internal software development of Swiss Card in the areas of Microsoft Visual Basic 6.0, Microsoft Access 97, Microsoft SQL Server, Microsoft Visual Basic for Application and Microsoft Office (Word, Excel).
- Development of concepts and specifications and their implementation.
- Consulting internal IT in the area of database technology and DWH.
- Creation of interfaces to other applications in the non-Microsoft environment.
- Import of data from the Microsoft environment into applications from the non-Microsoft environment.
- Implementation of requirements using Microsoft VB 6.0, Microsoft Access, Microsoft Visual Basic for Application, Microsoft SQL Server, T-SQL.

Mar 2002 – Jun 2002 Adecco, Wallisellen

Folder filing system - Microsoft Access, VBA, Microsoft Excel, Microsoft Word
Double function as project manager

Creation of an application for managing folders using Microsoft Access for the corporate management of the Adecco company. The folders, their contents, the storage location in the form of the shelf and the exact location on the shelf are catalogued. An interface for importing existing Excel files is implemented. The application is developed using Microsoft Access and VBA.

- Creation of a system to manage the physical business folders filing of the management of the company Adecco in Wallisellen.
- For each existing folder of the company, the content of the folder, the physical

location, the documents contained, the time period of the documents and the search terms are stored of the documents as well as search terms.
- All data is stored in a Microsoft Access 2000 database.
- Microsoft Visual Basic for Application is used to develop the user interfaces for data management.
- The folder labels and the folder contents list are automatically created from the data entered.
- A fuzzy search according to the search criteria (Soundlike algorithm) is integrated.
- Various lists are created using Microsoft Access 2000 reports.
- Requirement engineering, data model using Dezign.
- Implementation of customer requirements using Microsoft Access 2000 and Microsoft Visual Basic for Application.
- Testing and documentation (user and technical).

Sep 2001 – Jul 2002 Philip Morris, Lausanne

Laboratory data acquisition - Orace, Microsoft SQL Server, T-SQL

Documenting all Microsoft SQL, Oracle and Microsoft VBA applications for the Philip Morris laboratories. The inventories of the applications were taken and both technical documentation and a user manual were created for each application. Both documents were produced in English.

- Documenting the quality monitoring applications in the laboratories.
- Applications created using Microsoft Visual Basic 6.0.
- Backend Oracle and PL/SQL.
- Backend Microsoft SQL Server and Transact SQL.
- Analysing the applications to be documented.
- Discussions with the development teams, with the responsible project managers.
- Recording the original requirements for the applications.
- Some applications had to be analysed from scratch (data model, database logic, user interfaces and user interface logic).
- Based on the analyses, documents and discussions with the responsible parties, a technical documentation could be created.
- The technical documentation was created using Microsoft Word in German and English.

Feb 2001 – Oct 2001 City Bank, Zurich

On Calls – Microsoft Access, VBA

Create or further develop an application for the administration of support tickets. The application was created using Microsoft Access and VBA and the task is to adapt it to the new requirements of the business. Implementation using Microsoft Access and VBA.

- Extending an existing Microsoft Access 97 application to manage customer calls (support).
- The existing application had to be extended with new functionality.
- The background of this extension was the creation of a detailed report system.
- The existing application was realised using Microsoft Access 97.
- Up to this point, data entry was done manually. This function was replaced with the extension and the data is now taken directly from the ticket system and imported into Microsoft Access 97.
- Further special functionalities such as the duration until a ticket was processed, the costs for processing a ticket or the ranking of processed tickets were newly realised.
- Testing and documentation (user and technical).

Jan 2001 – Nov 2001 Arsis GmbH, Hinwil

Dog Club Software - Microsoft Access, VBA, Microsoft Excel

Creating an application for the administration of dog clubs and especially for the organisation of competitions. Members of the clubs are managed and when a

competition is held, both club members and other dog owners are invited to the competition. Rankings are automatically created and published based on the evaluations. The application is developed using Microsoft Access, VBA and Microsoft Excel.

- Create an application to organise and run competitions and competitions for dogs (agility).
- The application includes a club administration (very simple structure) and a competition administration.
- The club administration is limited to the administration of members (addresses), the sending of invitations (serial letter, mail) and the status of membership fees/payment.
- The competition administration includes the tools registration, competition category, competition points, ranking list etc.
- For communication, serial letters and an interface to Microsoft Outlook are provided.
- The application is realised using Microsoft Access 97.
- Testing and documentation (user and technical).

Jan 2001 – Dec 2003 UBS AG, Zurich

Signs Version 1.0 - Microsoft Access, VBA, VB 6.0
Double function as project manager

Creating a prototype for the application or for the database compiler project to be launched in 2003. The prototype will be developed using Microsoft Access and VBA as well as Microsoft VB 6.0. The aim is to be able to keep the migration as simple as possible when the application is later implemented. A migration from Microsoft Access to Microsoft SQL Server is the easiest way to keep the migration costs as low as possible.

- Develop a UBS AG internal application to generate and manage physical signatures of authorised employees, taking into account internal and legal requirements.
- Employee data is consolidated from several different sources (national and international) and refined with the help of data such as the company structure.
- By sending an e-mail, the employee is requested to submit his or her signature (form, in four languages) and the submitted signatures are read in by means of batch processing.
- The aim is to develop the complete software for managing the signatures of authorised employees in as short a time as possible (RAD Microsoft Access 97, VBA, VB 6.0) and, in parallel, to develop the prototypes for version 2 (SQL Server, VB).
- Requirement Engineering.
- Create data model using Dezign.
- Implementation of customer requirements using Microsoft Access 97.
- Microsoft Visual Basic for Application and Microsoft Visual Basic 6.0.
- Provision of reports (Microsoft Access 97) and consolidated evaluations (Microsoft Excel).
- Testing and documentation (user and technical).

Jan 2001 – Jan 2001 UBS AG, Zürich

Project monitoring - Microsoft Access, VBA, VB 6.0, Microsoft Excel, SQL
Double function as project manager

Creation of a project monitoring application for the office of the Board of Directors of UBS AG. Projects are managed in terms of budget and expenditure and are compared with the actual financial data. The application was developed using Microsoft Access, VBA, SQL, Microsoft Excel and VB 6.0.

- Create a system for project monitoring.
- Employees record their working hours at the task level of the project (online).
- The required performance catalogue is made available at project level by means of a Microsoft project file.

- The times recorded by the employees are consolidated and displayed daily and transferred to a Microsoft Access 97 database.
- In the application (Microsoft Access 97) a synchronisation with the MS project file takes place and the effectively worked times of the employees are entered into the Microsoft project file.
- Planning deviations are immediately displayed and measures are suggested automatically.
- Requirement Engineering.
- Data model creation using Dezign.
- Implementation of customer requirements using Microsoft Access 97.
- Microsoft Visual Basic for Application.
- Providing the synchronisation (Microsoft Access 97 and Microsoft Project).
- Data transfer from time recording.
- Testing and documentation (user and technical).

May 2000 – May 2001

Berner Versicherung, Bern

MSSQL Development - Microsoft SQL Server, SQL, T-SQL

Support of the company Berner Versicherung in the realisation and implementation of requirements in the area of Microsoft SQL Server developments, independent of the application. Complex stored functions and complex dynamic SQL statements are realised.

- Support for Berner Versicherung (Allianz Group) in the maintenance and further development of various applications in the area of Microsoft SQL Server.
- Creation of stored procedures (eng. Stored Procedure).
- Integrate various new requirements into existing applications on the server side. integrate.
- These were mainly applications of the insurance business, administration of customers, contracts, insurance policies, etc.
- Support for the implementation of internal processes in the area of insurance administration and sales.
- Requirement engineering.
- Data model creation using ERWIN.
- Implementation of customer requirements using Microsoft SQL Server, T-SQL.
- Testing and documentation (user and technical).

Mar 2001 – Sep 2001

UBS AG, Zurich

Customer evaluation - Oracle, PL-SQL, SQL

Ordering an application to evaluate the assets under management per client advisor. The database is an Oracle database supplemented with a Hyperion Essbase data cube, which is the source for the evaluations. The individual evaluations are set up on this data cube using Excel and the data for the ranking lists are sorted using VBA.

- Realise a course or school administration to manage students, timetables, lecturers, course rooms, documents, exams, scores, etc.
- Consolidation of examination results.
- Administration of teaching materials and administration of exams.
- The idea is to integrate and automate as much of the school administration as possible in one application.
- In order to be able to guarantee automation, various interfaces to other applications such as Shugar, Outlook etc. will be developed. Realisation.
- Testing and documentation (user and technical).

May 2000 – Jun 2001

UBS Warburg, Opfikon

WEF Administration – Microsoft Access, VBA, Outlook, Microsoft Word

Creation of a management software for the World Economic Forum in Davos. The application manages everything from invitations to guests and hotel reservations to participation in events at the Forum and the reservation of meeting rooms. The

application is implemented using Microsoft Access and VBA and offers interfaces to Microsoft Outlook, Microsoft Excel and Microsoft Word.

- Completing a Microsoft Access 97 database (course management for internal training) of UBS Warburg (investment bank in Opfikon) to manage the invitations for the WEF (World Economic Forum in Davos).
- Reservation of hotel rooms and meeting rooms for the invited guests.
- Reservation of tables in restaurants.
- Creation of meeting schedules.
- Coordination of meetings using Microsoft Outlook calendar.
- Managing the participants of the meetings.
- Reservation of tickets, events and other required infrastructure (beamer, computer, etc.).
- Testing and documentation (user and technical).

Apr 2000 – Apr 2000 BAW AG, Schlieren

Course Management - Microsoft Access, VBA, Outlook, Shugar, SQL

Create an application to manage courses and training in education and training. The application manages everything related to the courses, from students to class formation, lecturer assignment, tests and exam results. The application is realised using Microsoft Access, VBA, Outlook, SQL and Shugar.

- Realise a course or school administration to manage students, timetables, lecturers, course rooms, documents, exams, scores, etc.
- Consolidation of examination results.
- Administration of teaching materials and administration of exams.
- The idea is to integrate and automate as much of the school administration as possible in one application.
- In order to be able to guarantee automation, various interfaces to other applications such as Shugar, Outlook etc. will be developed. Realisation.
- Testing and documentation (user and technical).

Feb 2000 – Oct 2001 UBS Warburg, Opfikon

Daily P&L – Microsoft Access, VBA, SQL, Microsoft Excel

Calculation of the Daily Profit & Lost of UBS Warburg in Opfikon. Financial data is imported, refined and corresponding calculations are performed. The output is done using Microsoft Excel and the application is developed using Microsoft Access, VBA and SQL.

- Erstellen Sie eine Anwendung, die die tägliche Gewinn- und Verlustrechnung der UBS AG Investmentbank Warburg in Opfikon erstellt.
- In diesem Fall wird eine sehr einfache Berechnung gewählt.
- Es werden alle Einnahmen den Ausgaben gegenübergestellt.
- Die so erstellte Gewinn- und Verlustrechnung zeigt den aktuellen Tagesstand der Investmentbank und ist gesetzlich vorgeschrieben.
- In der Vergangenheit mussten die Banken bei einem "verlorenen" Status den Gegenwert in Form von Wertpapieren hinterlegen.
- Heutzutage erfolgt die GuV-Abrechnung in elektronischer Form.
- Die Daten werden aus den Großrechnersystemen bezogen, veredelt und in Gruppen dargestellt.
- Prüfung und Dokumentation (Anwender und Technik).

Mai 1999 – Jul 2001 Siemens AG, Wallisellen

Small railway interlocking - Sybase, SQL, Delphi, ADA

Develop an application to design and control a light railway interlocking. Task: Development of the component management, subordination of all reports regarding existing components in order to be able to design the interlocking. This part of the

application was developed using Sybase as backend and Delphi as frontend.

- Creating an application (Sybase, TSQL and Delphi 3.0 / 4.0 / 5.0) for the system data.
- Administration of the railway interlocking.
- With the help of this application, the individual components of the SIMIS railway interlocking can be configured and managed.
- We are talking here about components such as "switches", from which the railway interlocking is subsequently built.
- These components are always standardised products.
- The international team of 22 developers realised the following products.
- The application for the system data administration for the railway interlocking.
- User interface development using Delphi 3.0 / 4.0 / 5.0.
- Database Sybase, database logic realised by means of stored procedures.
- The interlocking was realised using Ada, graphic tools using C++.
- The ODBC interface was also realised using C++.
- SIHL-LEVEL 4 development.
- Testing and documentation (user and technical).

Apr 1999 – Sep 1999 Fima.b AG, Zurich

Central Access Management - Microsoft Access, VBA, SQL

Developing an Access administration: Using an Access database, new Microsoft Access applications can be generated through table entries. The values read from the tables form the properties of the individual objects such as forms, queries and reports. A standard is defined as to how these applications or how the future user interfaces are to look. For each of the 120 applications of the central laboratory in Belgium, a migration of the applications can thus be carried out quickly and efficiently.

- Realisation of an application for the central administration of Access 97 objects (tables, forms, queries and reports).
- Based on the defined data, entire applications (Microsoft Access 97) can be generated.
- The central laboratories in Bern have given the order to create 18 applications of different functionalities.
- For this reason, I decided to generate an application that is able to create new applications from specified data during runtime.
- Thus, a central administration of Access objects as well as a template for the applications to be generated was created.
- Testing and documentation (user and technical).

Jun 1998 – Sep 1998 Lutronic, Feldbrunnen

Crystal Reports – Microsoft Access, VBA, Crystal Reports, SQL

Project support: The initial situation is an Access database with an Access front-end and an Access back-end implemented logic using Visual Basic for Application, which is now to be extended by dynamic reports created by Crystal Reports. The task here is to train and support the developers who design and implement these reports.

- Support for a freelance project employee in the area of Crystall Reports development. The client required the extension of the existing database (data model and logic, Microsoft Access 97, VBA).
- Adaptation of the existing reports (Crystall Reports).
- Completion of the reports using the newly defined data.
- Implementing a new design for the reports (specified by the client).
- Extension of the displayed data.
- Creating new and clear groupings and the logic of the report generation.
- Support in the adaptation of the data model using Dezign.
- Support in the implementation of the customer requirements using Microsoft Access 97.

- Microsoft Visual Basic for Application.
- Support in the customisation of the reports.
- Testing and documentation (user and technical).

May 1998 – Jun 1998 UBS AG (Bankverein), Basel

Picasso – Microsoft Access, VBA, Microsoft Excel, SQL

Picasso is the corporate structure of the Bankverein. Since there were considerable adjustments to this company structure during the time of the merger of UBS AG and the Bankverein, the existing Microsoft Excel solution had to be replaced by a dynamic Access application. The aim was to be able to make manipulations to the tree structure quickly and easily. The application was implemented using Microsoft Access, VBA as well as SQL.

- Picasso is the entire corporate structure of UBS AG.
- This corporate structure was created and maintained manually in a central controlling office in Basel.
- After the merger of the two major banks UBS AG and Swiss Bank Corporation, manual maintenance was no longer feasible.
- Corporate divisions had to be integrated into each other, existing divisions were replaced or abolished and new divisions were added.
- Due to the fact that the old Picasso application was realised using Microsoft Excel and VBA, it was decided together with the client to realise the new company structure using Microsoft Access and VBA and to integrate new customer requirements regarding the merger during the realisation.
- Testing and documentation (user and technical).

Jan 1998 – Feb 2000 UBS AG, Zurich

Customer consolidation – Microsoft Access, VBA, SQL

Project: After the merger of Swiss Bank Corporation and UBS AG, the aim was to combine the private banking clients of both companies and to reallocate them to the client advisors. For this purpose, a Microsoft Access application was created, which on the one hand carried out the planning for the reallocation of the customers, but on the other hand also monitored the status of the implementation. The application was realised using Microsoft Access, VBA and SQL.

- After the merger of UBS AG with Swiss Bank Corporation, all clients of the Private Banking Group (of both big banks) are transferred to the newly formed big bank UBS AG, which was created by the merger.
- The client advisors of both companies are merged and assigned to the regions.
- The clients of the regions are assigned to the newly assigned client advisors, this under the condition that the client agrees to change with one client advisor.
- For this purpose, an application (Microsoft Access 2.0, Microsoft Visual Basic for Application) was developed for this purpose. and generates evaluations (Microsoft Access 2.0) or status reports (Microsoft Excel, VBA).
- Requirement Engineering.
- Create data model using Dezign.
- Implementation of customer requirements using Microsoft Access 2.0, Microsoft Visual Basic for Application.
- Microsoft Excel.
- Testing and documentation (user and technical).

Jan 1998 – Oct 1999 UBS AG (Bankverein), Basel

DB Migration – Microsoft Access, VBA, SQL, VB 6.0

Migration of 200 databases from Microsoft Access 2.0 to Microsoft Access 97. Frontend and backend were migrated in each case. Logic that was implemented using VBA or macros was checked and adapted if necessary. This applied to both the user interfaces and the reports.

- Migration of approx. 200 Microsoft Access 2.0 applications to Microsoft Access 97.
- No tools may be installed on the system for the migration of the 200 Microsoft Access applications.
- Create an inventory of all existing Microsoft Access applications.
- Identify applications and backup copies.
- For backup copies and old data applications, the migration had to be done at the Microsoft Access level only.
- For current applications, all logic also had to be migrated.
- OCX component (Microsoft Visual Basic 6.0) was developed, which documents the entire application in a text file and searches the documentation for various keyword searched for various keywords. Based on the search results, the migration could be carried out.
- Testing of the migrated applications.

Jun 1997 – Dez 1997 UBS AG (Bankverein), Basel

Search algorithm Soundlike – Microsoft Access, VBA, SQL

Soundlike search algorithm: Regarding the purge of nameless assets, a special search algorithm had to be developed which could match names of account holders not by their spelling but by the sound of the name. For this purpose, a Microsoft Access application was developed, which had a special search algorithm capable of producing search results by calculation. The application was implemented using Microsoft Access, VBA and SQL.

- International pressure on major Swiss banks regarding unnamed assets is increasing.
- UBS AG decides to realise an application for the search of nameless assets (Unscharfe Soundex Suche).
- This application is to be realised as simply as possible (RAD).
- The approach is not based directly on the graphical representation of a word, but searches for character strings that sound the same - the phonetic search.
- A method known in this context, which indexes words according to their sound, is called the "Soundex algorithm" in English.
- An application is developed using Microsoft Access and Microsoft Visual Basic for Application, which can search tables of mainframe systems according to certain specifications.
- Requirement Engineering
- Create data model using Dezign
- Implementation of the customer requirements using Microsoft Access 2.0
- Microsoft Visual Basic for Application
- Testing and documentation (user and technical).

Jun 1995 – Oct 1997 UBS AG, Zurich

Project management - Microsoft Access, VBA, Microsoft Excel, SQL

Creation of a project management application for the financial officers of the Board of Directors of UBS AG. Group projects were monitored with this application. For this purpose, data from various sources were loaded and compared with the respective accounting values (financial data). The budget and the hours worked were monitored. The application was developed using Microsoft Access, VBA, SQL and Microsoft Excel.

- Implementation of a project monitoring system for the Group Executive Board of

UBS AG.
- With the help of this application, projects of the group management as well as global projects of the group are monitored and controlled.
- The application contains a contractor database, a project planning database with the budget figures, and an invoicing database with the invoiced expenses as the data basis.
- On the basis of the available information (read out from mainframe systems), various evaluations and comparisons can be made.
- Data read from the mainframe systems (import) can be adjusted and re-imported into the systems.
- Project monitoring is realised using Microsoft Access 2.0 and migrated to Microsoft Access 97 in 2003.
- Reports are exported to Excel.
- Requirement Engineering.
- Data model creation using Dezign.
- Implementation of customer requirements using Microsoft Access 2.0, Microsoft Visual Basic for Application, Microsoft Excel.
- Testing and documentation (user and technical).
- Later migration to Microsoft Access 97.

Jan 1995 – Dec 1995 Truns AG, Truns

Shop management - Microsoft Access, VBA, Microsoft Excel, Microsoft Word, SQL

Creating an application for the Truns MassCorner shops that controls the entire administrative management of the individual shops. From the customer addresses to the fabric types, the cutting data for the suits, the colours of the fabrics to the price calculation, which calculates the application of all necessary key figures and finally also creates the invoice for the customer. The application was realised using Microsoft Access, VBA, Microsoft Excel, Microsoft Word and SQL.

- A management software is being created for various sales outlets of the Truns company.
- The idea is to attract new customers and to sell customised collections, which are produced in Trun, (Switzerland) according to employee data in the sales shops.
- In order to simplify the entire administration of the sales shops, an application based on Microsoft Access 2.0 is developed, which simplifies the administrative work in address administration, administration of the customers' measurements for the production of the clothes, administration of the fabric assortment, etc. The application is based on Microsoft Access 2.0.
- Requirement Engineering.
- Data model creation using Dezign.
- Implementation of customer requirements using Microsoft Access 2.0, Microsoft Visual Basic for Application, Microsoft Excel.
- Testing and documentation (user and technical).

Jan 1993 – Dec 1994 Viktor Jetzler AG, Mühleberg

Service recording - Microsoft Access, VBA, SQL

We provide a service registration for lawyers. Based on a dynamic catalogue of different services and service groups, the services for the clients can be recorded and charged with just a few clicks. There are services that are charged at a fixed price as well as services that are charged by the hour. The application was developed using Microsoft Access, VBA and SQL.

- Creating an application to record services for lawyers.
- Client-related client data can be recorded and managed.
- Using a predefined service catalogue, lawyers can record services rendered to their clients and determine the number of units to be charged.
- Accordingly, the client can be charged for services over a defined period of time.
- When billing, the services are shown in detail and cumulatively

shown.
- Requirement Engineering.
- Create data model using Dezign.
- Implementation of customer requirements using Microsoft Access 2.0, Microsoft Visual Basic for Application, Microsoft Excel.
- Testing and documentation (technical).

Jan 1992 – Dec 1992 BVI Consulting AG, Zuchwil

eBanking – Microsoft Access, VBA, SQL

Developing the eBanking software Office Wings. In this project I am responsible for the administration of the master data, the creation of the input masks for the parameters of the application, the creation of the reports for the application and the creation of the entire logic, which is activated by the input masks. The application is created using Microsoft Access, VBA and SQL.

- Developing the Office-Wings application (Microsoft Access, Microsoft Visual Basic for Application).
- Recording and administration of payments at home and abroad, bank and post office, all types of payment orders, administration of debit orders (LSV+ DD), executed payments available in the archive at any time, import and transmission of payment orders, account statements and turnovers available at any time, collection, display, printing, splitting and forwarding of payments.
  statements and turnovers at any time, collection, display, printing, splitting and forwarding of credit notes. (ISR).
- Value date balances, liquidity (incl. credit limit), disposition and balance settlement incl. interest calculation, automatic transfer posting taking planning data into account, securities accounts, foreign exchange rates, timer service for automatic actions (collection of desired data, etc.), dynamic
  notification of selectable events by SMS or mail, client, user and signature administration.
- Requirement Engineering
- Create data model using Dezign
- Implementation of customer requirements using Microsoft Access 2.0, Microsoft Visual Basic for Application, Microsoft Excel.
- Testing and documentation (technical).

Jan 1990 – Dec 1991 Robert Bosch GmbH, Zuchwil

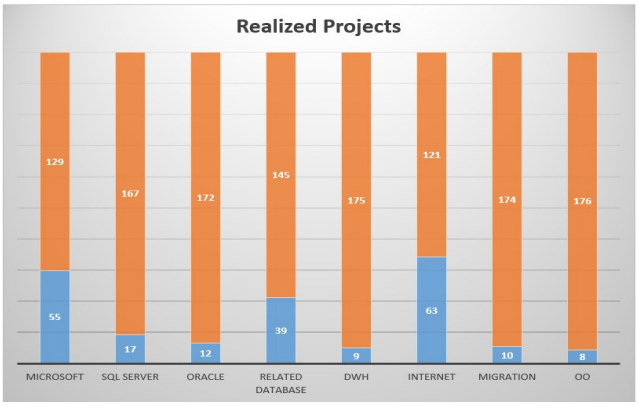
Production optimisation - Microsoft Access, VBA

Develop various applications for production time recording. As part of a project to optimise the production lines of the anchor coiling plant, several applications were needed to measure the cycle times of the production line and to determine the manual interactions of the employees on the production lines. For this purpose, several applications were developed using Microsoft Access and VBA or Microsoft Excel and VBA.

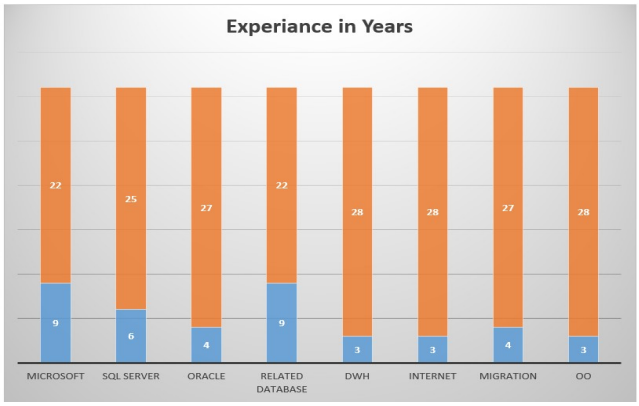
- Creation of various applications to optimise the automated and manual production of the company Robert Bosch GmbH in Zuchwil and Deitingen.
  In Zuchwil, the production of the anchor winding line (automated production lines) was analysed, and various applications for recording and evaluating the individual machine cycles were developed.
- The applications were developed using Borland Pascal, Microsoft Access, Microsoft Visual Basic for Application, Microsoft Visual Basic and Microsoft Excel.
- Based on the data collected by the applications, considerable productivity improvements could be achieved.
- In Deitingen, manual production was monitored, production times were recorded and work schedules were created based on the recorded and calculated times.
- An ACTUAL and TARGET value was determined, the calculated times were presented in the form of new work schedules and introduced into the operation.
- A Microsoft Access 2.0, Microsoft Visual Basic for Application application was

used to create the work schedules Visual Basic for Application was created.
- The work plan was generated and the time calculated on the basis of the stored individual work steps.
- The work plan was created with Microsoft Word.
- Requirement Engineering.
- Data model creation using Dezign.
- Implementation of the customer requirements using Microsoft Access 2.0, Microsoft Visual Basic for Application, Microsoft Excel, Borland Delphi, Microsoft Word.
- Testing and documentation (technical).

PROJECT OVERVIEW



Realised projects per development area



Experience per development area

The two graphs above illustrate the number of projects realised in the respective areas as well as the experience in years in the respective areas. It is important to mention that the areas Microsoft, Microsoft SQL Server and DWH partly show the same projects, since a project that was realised using Microsoft SQL Server or a data warehouse that was also realised using Microsoft SQL Server is certainly also listed in the Microsoft area.

Number Microsoft- Projects	55	Experience Microsoft- Projects	9
Number Microsoft SQL Server- Projects	17	Experience Microsoft SQL Server- Projects	6
Number Oracle- Projects	12	Experience Oracle- Projects	4
Number relationale Datenbank- Projects	39	Experience relationale Datenbank- Projects	9
Number Data-Warehouse- Projects	9	Experience Data-Warehouse- Projects	3
Number Internet- Projects	81	Experience Internet- Projects	3
Number Migrations- Projects	10	Experience Migrations- Projects	4
Number OO- Projects	8	Experience Projects	3

SPECIAL SKILLS / CERTIFICATIONS

Additional project knowledge
Requirement engineering, real-time development, SIHL Level 4 programming, image processing with C# (WPF, WCF, WWF etc.), data migrations from SAP to Project Server and vice versa, preparation of patent specifications, project management, project management committee banks, data and application migrations.

Patents
Worldwide patent for working time control by means of biometrics.
Worldwide patent for addressing endpoints in distributed heterogeneous networks.

Customer patents arose from projects
UBS AG, worldwide patented database compiler (SQL Server, Oracle).

Certifications

In August 2010, I was certified by UBS AG Due Dilligence. The certification (performance audit) concerned in the technical area the organisation of project management and project administration, team leadership and technical knowledge regarding the implementation of database projects.

EDUCATION & STUDIES / FURTHER EDUCATION / BANKING KNOWLEDGE / LANGUAGES

Languages

German: Mother Language
English: Fluent speaking and writing (C1)
French: Basic knowledge spoken and written

Special banking knowledge, certifications

2019 Cyber Security & Social Engineering
2019 Information Security and Records Management
2019 Working with Respect
2019 Market Conduct
2018 Financial Crime Prevention
2018 SDLC
2018 SERA / MER
2018 Understanding CID and policy compliant data
2018 Training on the EU General Data Protection Regulation

Further education

2005 Oracle
2005 Hyperion Essbase
2004 Oracle SQL Tuning
2004 Oracle: PL/SQL
2001 Oracle Database
1997 OO Analysis and Design
1996 Java Advanced Concepts
1996 SQL for Advanced Users
1994 Java Introduction
1994 Java User Interfaces
1993 Delphi Database Development
1993 Advanced Borland Delphi Course
1992 Development with Borland Delphi
1992 Application Development with Delphi
1991 Visual Basic Programming Course 2
1990 Visual Basic Programming Course 1

Training & Studies

1985 - 1988 Studied at the Technical University of Applied Sciences NWS, specialising in microprocessor technology.
1980 - 1984 Apprenticeship as a mechanic, passed vocational examination, vocational training at the company Delta AG in Solothurn.
1979 - 1980 Secondary school in Wangs-Pizol (10th grade)
1976 - 1979 Secondary school in Langendorf
1970 - 1976 Primary school in Langendorf

INDUSTRY AND DEVELOPMENT ENVIRONMENT

Knowledge in the fields of

Knowledge in
Development and implementation of **management software**

Development and implementation of **client management software**
Development and implementation of **laboratory and medical software**
Development and implementation of **risk analysis**
Development and implementation of **financial software**
Development and implementation of **e-banking software**
Development and implementation of **stock recommendations**
Development and implementation of **ETL routes and DWH's**
Development and implementation of **SDLC software**
Development and implementation of **lifecycle calculations**
Development and implementation of **performance tuning (DB)**
Development and implementation of **project management and work and project times**
Development and implementation of **migrations**
Development and implementation of **credit card software**
Development and implementation of **interfaces**
Development and implementation of **legal requirements**
Development and implementation of **internet applications and websites**

Industry sector
Private Banking
Investment Banks
Banks in general
Banks Administration and Management
Reinsurance
B2B Insurances
Insurance
Research and development
Industry
Retail trade
Start-up companies
Government and administration
Car industry
Private individuals
Schools and further education
Medical laboratories
Trust
Kitchens and Hotel
Railways and Transport
Recruitment agencies
Telecommunications
Chemical companies
Biology companies
Printer manufacturers

DIVERSES

Work locations
Switzerland, Germany (FRG-wide), Austria, Liechtenstein, Europe.
Willingness to travel nationally and internationally given.

Salary
Permanent position depending on overall package
Project basis on site 60.00 Euro / 70.00 SFr. per hour - 80.00 Euro / 100.00 SFr. per hour.
Project basis remote 50.00 Euro / 60.00 SFr. per hour - 80.00 Euro / 100.00 SFr. per hour.

Depending on the project, remote share and negotiable.

Availability
From 31.12.2020 at 100%

Hobbys
Relationship, nature, dog (animals), sports, new technologies, social commitment, classical music

REFERENCES

On request

ATTACHMENTS

– Cover letter
– Overview of all projects and skills, sorted by date
– Reverence list on request