

Databases and SQL Developer Profile

Frank Hentzschel | Senior Database and SQL Developer

Design, development, analysis, migration and performance tuning of relational databases. Extensive experience with Microsoft SQL Server, Oracle, PostgreSQL and Informix, complex database logic and the integration of long-established business applications.

Core skills SQL Server / T-SQL · Oracle / PL/SQL · PostgreSQL · Informix / SPL · SQL tuning · Stored procedures · Database migration

Additional technologies Microsoft Access/VBA · Excel/VBA · MySQL · IBM DB2 · Power BI · Power Query · ETL · ODBC

Working arrangements Primarily remote; on-site meetings by agreement across Germany, Austria and Switzerland.

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Selected Project Results

- Informix to PostgreSQL: Ongoing migration and validation of extensive university data, including BLOBs; application testing after switching ODBC connections.
- E.ON: Optimised Access/Oracle data matching from an original 12–16 hours to around ten minutes for the actual comparison following data preparation.
- LDBV: Largely independently migrated an Access database to SQL Server and introduced the converted application into production.
- Bavarian judiciary: Reduced an error-prone process from one to two days to under 30 minutes through database and application optimisation.

Specialist Skills

Database Development Relational data models, SQL queries, views, stored procedures, functions, triggers, indexes and server-side processing with T-SQL, PL/SQL and Informix SPL.

Performance Tuning Analysis and optimisation of SQL queries and execution times, indexing, moving time-critical logic to database procedures and improving data access.

Migration and Modernisation Data transfer, validation, BLOB processing, schema and query adaptation, backend migration and integration with existing applications.

Integration and Reporting ODBC, DAO/ADO, interfaces, ETL, data preparation, CSV/XML/JSON, Access/Excel, Power Query and Power BI.

Working Methods Reverse engineering, fault analysis, refactoring, automated testing, TDD, Git, technical design and occasional database administration.

Selected Project References

Universities in Baden-Württemberg – Informix Migration

since 04/2026

Technical migration of extensive datasets, including BLOBs, from Informix to PostgreSQL within a three-person team. Executed migrations using supplied scripts and tools; reconciled data volumes, record counts and selected content. Tested applications after switching ODBC connections to PostgreSQL.

Result / Status: Numerous databases already migrated and tested; the overall programme covers heterogeneous data from 38 university locations.

Technologies: Informix, PostgreSQL, SQL, ODBC, Linux, Data validation

Finance Company – Backend and Database Development

06/2025–01/2026

Development and adaptation of C#/.NET API interfaces and SQL Server stored procedures for an existing database structure. Optimisation of data access through suitable indexes and revised procedures. Also developed an Excel/VBA KPI dashboard prototype.

Technologies: C#/.NET, SQL Server, T-SQL, Stored Procedures, Excel, VBA

Energy Trading – Oracle and PL/SQL Development

04/2025–06/2025

Creation and adaptation of SQL queries and Oracle stored procedures in an energy-trading environment, including fault analysis and performance tuning.

Technologies: Oracle, PL/SQL, SQL

VHV – CMDB Data Quality and Flexible Reporting

11/2024–03/2025

Development of SQL queries and views; analysis, reconciliation and cleansing of CMDB data and preparation for a service transition. Developed a configurable Excel/VBA reporting tool with selectable report, parameters and database instance; results were exported to new worksheets. Adapted and corrected existing Power BI reports.

Result / Status: Additional reports could be incorporated by configuring new SQL queries without changing VBA code.

Technologies: SQL Server, T-SQL, Excel, VBA, Power BI

Vehicle Development – Support of a Long-Established Test Logging Application

11/2022–11/2024

Took over and independently maintained a long-established Access/VBA application for logging and analysing vehicle and component tests. Reverse engineering, bug fixing, change requests and support of production operations until replacement by a cloud solution. Also maintained C#/.NET reporting components.

Result / Status: Accelerated slow Oracle data access in Access forms and optimised Excel exports.

Technologies: Access, VBA, Oracle, ODBC, SQL Server, T-SQL, PL/SQL, C#/.NET

Bavarian Judiciary – Database Optimisation and Office Automation

01/2022–07/2023

Analysed and optimised SQL Server stored procedures; improved an Access application and supported Power BI reports and Excel/Power Query solutions. Developed Excel-based solutions for collaborative data maintenance via SharePoint.

Result / Status: Reduced the work involved in an error-prone consultant invoicing process from approximately one to two days to less than 30 minutes.

Technologies: SQL Server, T-SQL, Access, VBA, Excel, Power Query, Power BI, SharePoint

Software Company in Rosenheim – CRM and Dynamics Integration

03/2019–12/2021

Enhanced commercial applications using Delphi and PostgreSQL, particularly in the CRM area. Imported Dynamics 365 data via a web interface into the application and PostgreSQL database; developed plugins/extensions using C# and JavaScript, along with unit tests. Used Docker containers.

Technologies: Delphi, PostgreSQL, Dynamics 365, C#, JavaScript, Docker, Unit tests

LDBV – Migration of an Access Application to SQL Server

02/2016–07/2016

Migrated data and tables from an existing Access application to SQL Server largely independently and adapted VBA code and queries. Retained efficient Access queries while moving time-critical processing to SQL Server queries and stored procedures.

Result / Status: Migration completed and the converted application subsequently put into production.

Technologies: Access, VBA, SQL Server, T-SQL, Stored Procedures

Energy Trading in Leipzig and Frankfurt – Modernisation of an Asset Management Application

02/2013–04/2016

Developed custom Office and database applications. Largely independently replaced an Excel-based power-plant asset management tool, whose calculations had become increasingly slow, with an Access/SQL Server database solution. Also provided reporting and ongoing application support.

Result / Status: Centralised data storage, improved data quality, fewer errors and faster calculations.

Technologies: Access, Excel, VBA, SQL Server, Oracle, C#/.NET, SSRS, SSIS

Syneco Trading – Applications for Energy Trading

10/2010–06/2011

Analysed, tested and enhanced Excel/VBA and Access/VBA applications in energy trading. Code reviews, Office version migration, and development and adaptation of Oracle stored procedures, views, functions and triggers.

Technologies: Excel, Access, VBA, Oracle, SQL, PL/SQL

IKEA – Financial Application for Supplier Loans

05/2010–09/2010

Enhanced an existing Access/Oracle financial application for loans and credit facilities for suppliers. Business-driven improvements focused on usability. Developed reporting functionality with dynamically defined user filters connected by AND/OR conditions.

Technologies: Access, VBA, Oracle, SQL, PL/SQL

Leasing Company – Informix Reporting

10/2008–11/2009

Independently developed and maintained business reports, ad-hoc SQL queries and stored procedures. Administered Crystal Enterprise, including scheduled publication of reports on the intranet.

Technologies: Informix, SQL, Stored Procedures, Crystal Reports, Crystal Enterprise

E.ON Bayern – Balancing Group Analysis and Excel Automation

04/2007–03/2008

Developed Access/VBA solutions to convert, validate and analyse distribution network operator data from Excel, CSV and EDIFACT in SQL Server. Developed Excel automation for recurring manual data preparation.

Result / Status: A recurring monthly task taking around two days was reduced to approximately two minutes using a tool developed in two days.

Technologies: Access, Excel, VBA, SQL Server, T-SQL, EDIFACT

E.ON – Performance Tuning of Address Data Reconciliation

10/2001–03/2003

Took over a slow Access/VBA application for reconciling address and billing data from SAP IS-U and Oracle. Optimised it using indexes, temporary tables, improved matching logic and scheduled Oracle data imports; data was then matched locally in Access.

Result / Status: Processing time originally around 12–16 hours, initially reduced to 60–90 minutes and ultimately to around ten minutes for the actual matching after data preparation.

Technologies: Access, VBA, Oracle, SAP IS-U, ODBC, SQL

FIDUCIA – ProFIT Banking Software

01/1999–12/1999

Enhanced existing banking software using Visual C++ and adapted database access to Oracle and IBM DB2/UDB.

Technologies: Visual C++, SQL, Oracle, DB2/UDB, Windows NT, OS/2

Additional Skills

Development and Automation Microsoft Access/VBA, Excel/VBA, C#/.NET and Delphi; modernisation of existing applications and interface development.

Reporting and Integration Power BI, Power Query, occasional SSRS/SSIS, earlier Crystal Reports experience, ODBC, EDIFACT, XML, JSON and CSV.

Education and Languages DV-Kaufmann vocational qualification (IHK). German: native; English: good working proficiency.

Professional Development Regular developer conferences and workshops, particularly in Access, VBA and database development.