Qualification profile

Personal Data

Name: Jürgen Menzel
Date of birth: 1966
Nationality: German
Education: Diplom Informatik
1992 (Graduation)
Experience in programming:
Since 1982 (Programming as subject in school)
freelance programmer in parallel to university studies
Since 1986 (Professional system development)

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I am looking for **a position where I can work as an Oracle specialist.**

My tasks could include this:

- Database administration for Oracle
- Datawarehouse and OLAP design + implementation
- Access tuning and optimization for DB2 or Oracle
- Programming in PL/SQL or other programming languages
- Database maintenance and SQL deployment for DB2 or Oracle
- Development of UNIX shell scripts
- Datamodelling with ERM or dimensional model

Qualifications

Overview
Software development in these areas:
- Risk management
- Share trading backoffice
- Fonds management
- Credit management
- Telecommunikation

Programming languages

Informatica Power Designer and Workflow Manager
COBOL II (was the language I used in the first 10 years of my software development projects)
PL/SQL (DB2 and Oracle)
UNIX shell scripts and AWK
C

Knowledge and experiences on a fundamental level:
PL1 (fundamentals)
FORTRAN (long time ago)
ALGOL (fundamentals)
PASCAL object bases
LISP function based and object based
PROLOG

Databases

Oracle: specialist for SQL, PL/SQL, tuning, experiences in DBA
DB2 z/OS: specialist for SQL, tuning. experiences in DBA
DB2 for Linux/UNIX/Windows: SQL, experiences in DBA, SQL/PL, tuning
IMS DB experiences with DB and DC
MySQL fundamentals

Hardware

SPARC M9000
SAN storage
PC
IBM mainframe

Operating Systems

UNIX / Linux
Windows
MVS zOS
TP monitore:

- CICS macrolevel
- IMS DC

TSO und ISPF

Tools

Informatica Power Designer and Workflow Manager
UNIX shell script programming, AWK
Regular expressions
Windows script programming
SQS (Test Tool for capturing of test data and management of softwaretests)
Erwin (datamodelling)
Oracle Database Designer
SQL Developer
TOAD
SQL Navigator
Microsoft Office Products (Word, Excel, ACCESS, Outlook, Power Point)
Strobe (DB2 accesspath analysis)
Data Dictionary from IBM
DB2 Workbench
ISPF programming
REXX (long time ago)
JCL
FTP
XML

Methods

Datamodelling with ERM and dimensional modelling
DWH und ETL design
Normalization, denormalization
Accesspath matrix
Historising (temporale datastore)
Software for several mandants
Decisiontables
Netplan technique
Petri net
Objectoriented design
Functionoriented design
Ruleoriented design

Industrial Sectors

Risk management
Share trading backoffice
Credit management
Fonds management
Monetary transactions management
Telecommunication
Marketing
Sales
Education

Comunication

I have finished the education of a "personcentered coach"
This was 360 hours of theory and practice in communication, teamwork, supervision, encountergroup.

Duties as Trainer since 1998

Parallel to the Software development projects, I worked as a teacher for the following topics:

Datamodelling with ERM
Datawarehouse modelling with dimensional model
The SQL language (DDL, DML, DCL)
Oracle PL/SQL
Oracle DBA fundameltals
Oracle tuning
DB2 applicationdevelopment
DB2 performance and tuning
Checkpoint restart strategies
COBOL fundamentals
Qualification of IT specialists
Communication training
Training for application of longterm unemployed persons

Projects

Oracle DBA for a finance service provider
5 years (Since 1.2016 until aprox. 4.2021)

The service provider runs 2500 of Oracle Databases installed on Windows or Linux-Servers.

My task was to solve the incoming tickets, installation, migration, monitoring of the backups, Upgrade from Oracle 11 to 12.1, later to 12.2 and finally to 19c, analyze of performance-problems and communication with ACS (=oracle advanced customer support).

Datawarehouse Development for Bankhaus Lampe in Düsseldorf
10 months (3.2015 – 12.2015)

Bankhaus Lampe is a private bank, that runs their IT-systems mostly as services from external providers. Only few IT-systems had been developed by Bankhaus Lampe itselfes. One of this self-developed solutions is the datawarehouse, connecting and exchanging data between several external systems.

The datawarehouse had to be adapted for the migration to a new trading system and for upgrade of the oracle database from release 10g to 12c and to a new hardware. This project was planned and organized with agile development and scrum.

The team consisted of 6 internal developers being familiar with the existing systems and all business cases. My task was to support the team with my datawarehouse experience and my knowledge as an oracle specialist.

My task was this

- Adapt the data marts, create ERM datamodels
- Adapt the ETL's implemented in PL/SQL packages
- Create the new Oracle tables, views, materialized views and jobs
- Create a standard for the technical documentation

ADBA for Telekom Austria in Wien
One year (2.2014 – 1.2015)

ADBA (=Application Database Administrator) for the Billing System from Telekom Austria for the markets in Austria, Serbia, Macedonia, Lichtenstein und Slovenia. The system gets developed by Amdocs in Israel. For each market data gets stored in 2 to 5 productive Databases. For development, test pre-prod environments, periodically clones were taken from prod. Since a huge amount of CDR files has to be processed and stored for every market, each single database has to store data up to 2 TB.
My task as a ADBA was to do application release updates by executing prepared scripts, solve performance problems, monitor space usage, run reorganizations during maintenance downtimes and advice DBA colleagues for instance tuning.
To provide a good service to the customers from Telekom Austria, it is very important to keep the system available for 7 * 24 hours. One part of the service is to give customers online access to their bills from the last months. Each outage or performance impact has to be solved as fast as possible.
The main challenge for me was to maintain a complex – in the beginning – for me unknown system with team members in Austria, Serbia, Israel and India. 90% of the communication is in english language.

Oracle database maintenance for UniCredit Bank
Duration nearly 5 years (3.2009 - 1.2014)

Service for the three projects TraRisk (Trading and Risk Management), GMR (Group Market Risk) and MDS (Market Data System) at UniCredit Bank. These projects implement all governmental requirements for BASEL II risk management concerning fixed assets and counterparties. All information are imported from the numerous trading systens. Its evaluation was done in former times with Monte Carlo simulation, later with historical simulation.
My task was to monitor the 39 Oracle databases concerning storage management and SQL performance and to execute all deployment tasks from the developers. I was responsible to develop and implement shell scripts and PL/SQL programs for monitoring and maintenance of the database. I was jointly responsible for running the Solaris servers and management of SAN Storage with Veritas Volume Manager.
These projects were a special challenge for me because some of these databases contained an amount of more than 5 TB of data and had to be available 7 * 24 hours. Every downtime prevented the traders from Singapoore, Europe and USA from checking their trade limits.
I was part of the team that migrated all databases from Oracle 10g to 11g RAC.

Design and implementation of a COGS calculation machine for O_2
Duration: 13 months (2.2008 – 2.2009)

Billing for the reseller customers Debitel and Talkline had to be changed from a flat rate bill to a billing according to the usage of the O2 services based on each single connection.
My task was to develop a software that evaluates the COGS (= Costs of soled Goods) for every single CDR (= Call Detail Record). I was responsible for the technical concept, implementation and launch of this software.
COGS calculation machine was implemented as an ORACLE PL/SQL package imbedded in UNIX shell scripts to import the CDR files from a FTP server via Oracle external tables. Technical output was a set of CSV files to be sent to the customers Debitel and Talkline.

Extension of ETL processes for a data warehouse from Pioneer Investments
Duration: 7 months (7.2007 – 1.2008)

Pioneer Investments in Munich is the former company Activest from Hypovereinsbank. After acquisition, many processes had to be adapted and management of the investment fonds had to be extended for all requirements of the new customers.
My task was to extend the DWH and its ETL for a partner and a “person” dimension including its fact data. I was responsible for technical design and implementation.
Pioneer uses ORACLE databases and PL/SQL programs as ETL’s, imbedded in Informatica Power Designer and Chronacle.

Extension of disclosure report interface for the BMW Bank
Duration: 15 months (4.2006 – 6.2007)

BMW Bank used the software SMS from TietoEnator to provide disclosure reports for the government. Input from SMS is the ODS (= Object Data Store, a datapool for credit deals) and a historical DWH. Input and output streans were implemented as a set of Oracle tables, being filled by Informatica Workflows.
My task was to extend the interface tables for a new release. It included conception, implementation of the mappings with Informatica Power Designer, implemention of the workflows with Informatica Workflow Designer, finally proceed the user acceptance test and the productive installation.

Installation of the system SMS (Sicherheiten Management System) for the IZB-Soft, the former computing center of the Sparkassen from Bavaria
Duration: 21 months (7.2004 – 3.2006)

IZB-Soft had purchased the system SMS from the Finanz-IT, the computing center of the Sparkassen from North Germany.
The goal of the project was to get SMS run within the existing systems of IZB-Soft and to migrate all data from the former system KREBIS (= Kredit Sachbearbeitungs und Informations System) into SMS.
SMS is implemented in Java and run by Websphere. Data gets stored on a DB2 database run on central IBM Mainfrage. Connection to the accounting systems had to be done by CTG (Cics Transaction Gateway). The former KREBIS System was run as several decentralized systems, implemented with C++, UNIX and Oracle DB.

My tasks were:
- Design and implementation of the dialog layer using LU0 and CTG, providing transaction security and logging functions
- Design of component and integration tests with the test tool SQS.
- Provide exports out of SMS into the DWH of IZB-Soft
- Quality check for the release updates concerning database DDL scripts send from Finanz-IT
- technical design and later the integration test for data migration from KREBIS to SMS
- Execute and monitor the productive migration for all 20 Bavarian Sparkasse institutes

Create Business reports with SQL for the FMS Bank
Duration: 4 months (3.2004 – 6.2004)

The business department needs several reports being generated every week or month. Additional reports are demanded for special situations or questions from the managing board.

My tasks were:
- communicate with the business people about all details of the requested reports
- locate all needed data in the existing databases of the bank. Research existing data models and documentations – if existing at all
- write the complex SQL queries
- train colleagues how to use the SQL language to create reports by themselves

Oracle DBA for a producer of beverages in Austria
Duration: 5 months (10.2003 – 2.2004)

All the production engines and the high rack storage area was managed by a software that stored its data in an Oracle database Version 8

My task were
- join the team of DBA's
- analyze and improve the process of periodical backups
- solve acute problems and contact the software provider if needed
- write scripts in PL/SQL to provide periodically reports for the marketing colleagues

Prototyp for a weather forcast expert system for a service company
Duration: 3 months (6.2003 – 9.2003)

The goal of this project was to prove that weather forecast can be done by an expert system, which interpolates accumulated stored data about weather data from the past.

My tasks were
- design a data model for the past weather data.
- design the core expert system to generate the weather forcast out of the stored data from the past.
- implement a prototype in PL/SQL imbedded by Windows NT

New development of the system "Bayerisches Call Center" for the IZB-Soft (Sparkasse in Bavaria)
Duration: 3 months (3.2003 – 5.2003)

The Sparkasse developed together with the Bayerischen Landesbank a call center in order to accept the banking orders from the customers by phone. For the technical construction, the existing online banking system should be used or extended.
Systemenvironment: COBOL, DB2, CICS, MQ Series.
My task was the conception of the communication layer to the Bayerische Landesbank and to design the technicel architecture of the system extensions. The specification of the technical concept and the implementation of the central module, which processes the orders in both the HBCI' format and in the VSS format. I was responsible for training three new colleagues to get them started working on the project. Further tasks: testing and supporting for the production launch.

In the year 2002, I was mainly working as a trainer

New development of a simple billing system for a consulting company
Duration: one month (12.2002)

All accounting information where gathered in a database. Several programs had to be designed for per and aftersales calculation.
My tasks were: the data and function modelling, implementation with Oracle PL/SQL installed on Windows NT, test and to get the system running in the production environment.

New development of a share backoffice system for the FMIS GmbH (HypoVereinsbank)
Duration: 10 months (3.2001 - 12.2001)

When a share trade is made, the bank is responsible for clearing of both the share sales and the money sales. The system had to manage the connection from these two sales for each trade.
System environment on the server side: IBM Host with MVS, COBOL, DB2 with online connections from clients with Java programs.
My tasks were the quality check from the logical datamodel (tool: Rational Rose), design of the technical datamodel (tool: Erwin), generating of the DB2 tables and the COBOL copies. I was member of a team, which designed and implemented the programs. We designed a test environment that gave 20 programmers the ability for parallel testing without conflicting each other. In that way, we could run the modul test, function test, integration test, system test and duty test. It was my task too, to locate critical access pathes to the DB2 tables.

New development of a share supplier information system for the FMIS GmbH (HypoVereinsbank)
Duration: 3 months (12.2000 - 2.2001)

All information about the supplier for money clearing and share clearing had to be gathered in a database.
System environment on the server side on an IBM Host with MVS, COBOL, DB2, online connection with IMS online transactions and later with Java client applications.
My tasks were: to check the quality of the logical datamodel (tool: Rational Rose), to design the technical datamodel (tool: Erwin), to generate the DB2 tables and the COBOL copies.
I was responsible for the design of the database assess modules and the basic functions layer with which the application could realize the four eyes check. Development of a test environment, migration of all data from the old system into the new system.

New development of the online banking system S Brokerage for the IZB-Soft (Sparkassen in Bavaria)
Duration: 10 months (2.2000 – 11.2000)

The new system gives all customers the ability to do share trading over the internet.
System environment: COBOL, DB2, CICS.
My tasks were implementation of the DB2 access moduls for the customer security check, testing the application and support for system start in the production environment.

Redesign of the mortgage management system for the HypoVereinsbank
Duration: 17 months (8.1998 - 12.1999)

The system had to check the payments for the credit rates from the customers. The new features of the system made it possible to do most of the accounting automatically.
My tasks were: redesign of the technical datamodel, design of the new system architecture and implementation of some of the new programs.
System environment: MVS, COBOL, DB2, IMS

Converting of keytables for a mortgage management system for the HypoVereinsbank
Duration: six months (2.1998 – 7.1998)

The 250 keytables of the system were designed in the old system as over 100 single assembler programs. In the time before, all changes on the keytables had to be done as a program change which took always a minimum of 24 hours. Now, all information had to be extracted from the assembler programs and had to be stored in DB2 tables. The existing access modules had to be changed from calling the assembler programs to calling the new DB2 access programs. It was very important that the new system worked as fast as the old system had worked.
System environment: IBM Host with DB2, MVS and TABEX. Programs were implemented in COBOL.

Datascheduling for controlling for Deutsche Bank
Duration: seven months (7.1997 – 1.1998)

The controlling department gathers all sales information from all other department in order to do the risk control management and to build up a correct balance.
System environment: MVS, DB2, sequential files and COBOL programs
My task was to implement several programms that distribute the datastreams in different parts according to the given parameter.

Design of the central sales database for all share trades for the Deutsche Wertpapierdaten Zentrale
Duration: seven months (12.1996 – 6.1997)

Analysis of the system for trades with German shares the system for trades with shares from foreign countries. Our task was to design a new system that can store both kinds of share trades in one database. The other main task was to make a list of all the programs, which access one of the old sales systems.
System environment: MVS, COBOL, DB2

Sales information exchange for the Commerzbank
Duration: one month (11.1996)

Redesign of the system which manages all payments to or from other banks.
System environment: MVS, DB2, IMS, COBOL
My task was to implement a program for an optimized scheduling of sales data into parallel DB2 tables.

Customer share management for the Dresdner Bank
Duration: one year 1995

Customers who want to investigate their money in shares but don't want to watch the share markets all the time can give their investment management to the bank. The customer only has to deside between conservative, balanced or growth oriented management. The system managed buying and selling, profit scheduling, changes in the customer choosen risk strategie, accounting of the monthly management fee and performance calculation.
System environment on the server: SINIX, INFORMIX, COBOL. On the 4000 clients: SINIX, X-Windows, a graphical frontend based on Open-UI
My tasks were: assistance for the system design, later project leading with the responsibility for 4 employees.

Shares skontro management and reporting system for the Dresdner Bank
Duration: two years (1994 and 1996)

The bank keeps a part of its money in share investments. All share trades have to be calculated and computed for setting up a correct balance and profit overview of the company.
The system was made to do all calculation and reporting for this busines.
System environment: MVS, CICS, COBOL, DB2.
My tasks were implementation of several programs for editing the skontro parameters and of some report programs. I was responsible for accounting of the system helpdesk.

Creation of an education concept for a consulting company
Duration: six months (1994)

My task was to collect the need for training from the employees, comparison with the needs of the company, selection of the trainings, evaluation of the feedback from the employees after the trainings.

Report generator for the former Hoechst AG
Duration: five months (1993)

System for editing, and managing of data selections, print layouts and print periods.
System environment: MVS, TSO-ISPF, COBOL, DB2.
My task was programming the online help function.

Security subsystem for validation of security calls from other systems for the BHF Bank
Duration: three months (1992)

System for editing of the Security tools and evaluation of security requests from other systems.
System environment MVS, COBOL, DB2.
My tasks was programing of some of the dialog programs and a part of the help function.

Prototype of en Expert system for a Software vendor
Duration: six months (1991)

This was my diploma exercise, to build a tool selection system for CNC machines.
The system evaluates the rules in its knowledge base, to choose a set of optimal tools for a working step of the CNC machine.
Programming language: PROLOG

Steering system for a paper cutting maschine for company Jagenberg Kampf
Duration: two months (1990)

Implementation of a program for a comfortable editing of the system parameters.
Programming language: C

Steering system for a tunnel drilling maschine for Wirth GmbH
Duration: two months (1989)

Implementation of a program to check the system processes
Programming language: C.

Store management system for a clock and jewels store
Duration: six months (1986)

Design and implementation of a store management system for profit calculation and order timing.
Programming language: PASCAL.