Mohit Patra

Summary

* **7 years of experience�**in complete software development life cycle with active engagement in�**database design, enterprise data warehouse**,�**development**,�**ETL processing, modeling**,�**reporting**and�**administrative tasks**.
* Experienced in design and development of�**Packages,**�**Cursors, Stored Procedures and Database Triggers**�using**�PL/SQL�**and good understanding of Oracle�**data dictionary**
* Experienced in using the Oracle ETL features like�**Materialized Views**�**and**�**Bitmap Indexes**
* Seasoned in optimizing performance of data warehouse operations using Oracle tools like�**SQL**�**Loader**,�**TKPROF**�,**SQL Trace**,�**Import/Export**�and�**Explain Plan**
* **Monitoring**�and�**optimizing**�the�**Database Performance**�through�**Database Tuning�**and�**Application Tuning**
* Extensively used�**PL/SQL**�**Bulk Load options**,�**Collections**�like PL/SQL tables and VARRAYS,�**Dynamic SQL, Analytical functions**�and�**REFCURSORS**.
* Used E**xternal tables and UTL\_FILE�**package to load spread sheet data into code tables.
* Working experience in data modeling (**Entity-Relationship and Dimensional Model**) and logical and physical database design.
* Experience using**�Informatica�**in designing the�**Tasks, Workflows, Mappings, Mapplets and scheduling the Workflows/sessions�**using Informatica.
* Experience in Front –end development using Core JAVA , Servlet , JSP, HTML,JAVASCRIPT ,XML
* Experience in working with Oracle�**Forms�**and Oracle�**Reports**
* **Expertise in Testing phase planning, preparation and execution**
* Expertise in�**Korn-Shell scripting**�and job scheduling using�**Autosys**
* Excellent communication, analytical and inter-personal skills.

**Skills**

Languages: PL/SQL, SQL, Shell Programming, C, C++, Java

Development tools Oracle Developer (Forms 4.5/5.0/6i, Reports 2.5/3.0/6i), Oracle Designer

RDBMS Oracle 8i/9i/10g/11g, MS Access

Database tools SQL\*PLUS, SQL\*Loader,TOAD, Aqua Data Studio

Hardware Sun Sparc, Intel Pentium

Operating Systems Sun Solaris, Windows 2000/2003/NT, Windows XP/98/95, HP-UX, MS-DOS

Reporting tools Business Objects 5.1/7.1/XIR2  
Siebel Analytics 7.7, Actuate 7.2, Crystal Reports 10.0

Web Development Tools HTML, JSP, JavaScript, XML, ASP 3.0, ADO, VBScript 5.x

Defect Management Tool Test Director 8.0, Quality Center, PVCS

Version Control Visual SourceSafe, Win CVS , PVCS, CVS

ETL Tools PowerCenter 8.6, Datastage, Oracle 9i Warehouse Builder

Methodologies Star Schema, Snowflake and ER Model

**EDUCATION**  
Bachelors in Mechanical Engineering.

**PROFESSIONAL EXPERIENCE**  
  
**Confidential�Minneapolis, MN�JAN 2011 to Till Date**�  
**Oracle Developer�**  
**Project:End of Day Store (EODS)**  
End of Day Store (EODS) is a data store which stores and exposes Accounts, Balances, Positions and Activity information for BETA Brokerage and Annuities. The data is updated once in a day during non peak hours and is consumed 24/7 by applications - like OST/CV, MyFA, SSD and Financial Planning apps. At a high level, data flows from BETA through Brokerage Mainframe into EODS and is exposed to the consumers through stored procedures and Web services. EODS batch is scheduled in TWS and it will load into TWS for the batch cycle.

**Responsibilities:**

* Involved in all the phases of the�**SDLC**�both technically and from the business point of view.
* Involved in Batch Redesign from SPSP to load, update and expose layer.
* Prepared DI mapping document for Smart Trade/ Tiered Commission stream. This is framed against the logical data model.
* Conduct walkthrough of the designed Stored proc definition document according to the web service definition which will be used by the Data Power team.
* Designed and developed�**update and expose**�layer for loading and exposing the data using�**PL/SQL Packages**
* Designed/developed�**tables**,�**views**, various�**SQL queries**,�**stored procedures, functions, Ref Cursors and Dynamic SQL.**
* Written complex SQLs using**�joins**,�**subqueries�**and�**correlated subqueries.**
* Used SQL Loader scripts to load static data to control schema tables using xls files.
* Involved in�**partitioning**�of very large tables. Used�**list and Hash�**partitioning
* Experience developing complex�**ETL mappings**
* Experience working with and able to demonstrate knowledge of complex�**Informatica**�**transformations**
* Performed configuring control schema and TWS Jobs setup.
* Participated in**�CMR**�creation during migration from E1 to E2 and E2 to E3.
* Designed/developed migration scripts to move data from old paradigm to new paradigm.
* Experience as an�**application and development**�DBA.
* Participated in code review with�**Top Coder**.

**Environment:**�Oracle 11g, PL/SQL, HP UNIX, Shell scripting, XML, Informatica, SQL Developer, and TOAD.  
  
**Confidential, CA DEC 2009 –�Jan 2011�**  
**Project:Operational Data Store(ods)**  
Build a near-real-time operational data store (Oracle) from IMS based legacy systems.Used IBM\'s Event Publisher to replicate IMS data change events to an Oracle database.Oracle triggers were used to ETL the legacy data into a normalized relational structure.My participation included the development of the Oracle triggers, Stored procedures and as well as to maintain the Java programs that read the data from MQ queuesand insert them intoOracle shadow tables.ODS is the primary data source for the Enterprise Business Services that is being used by e-commerce applications.

**Responsibilities:**

* Participated in all the Life Cycle phases including requirement analysis ,**Client Interaction**�**Design,**�**Coding, Testing, Support**�and�**Documentation**
* Created�**Functional Specification document**�and�**High-level design document**
* Worked under the supervision of a�**DBA�**and created database objects such as tables, views, sequences, synonyms, and table/column constraints, indexes for�**enhancement**
* Written complex SQLs using**�joins**,�**subqueries�**and�**correlated subqueries**
* **Developed complex PL/SQL packages for EBS**
* Developed�**Oracle Stored Procedures, Functions and Packages**�to effectively incorporate Business rules
* Worked extensively with�**Composite data types**,�**Cursors**�and�**Dynamic SQL**
* Written Row Level Triggers to replicate Legacy Systems data to�**Oracle Database**
* Used�**PL/SQL Tables, Ref Cursors**�to process huge volumes of data and used bulk collect and bulk bind for mass update as performance improvement process
* **Import/Export**�utility is used for transforming data from one place to another from testing to Production.
* Involved in SQL Tuning by creation of indexes, rebuilding Indexes using�**Explain Plan, SQL Trace and TKPROF**�Tools
* Prepared the procedures to update the internal structures to reflect the newly loaded data. Created the�**materialized views**
* Partitioned very large database tables using�**list partitioning�**to improve performance.
* Designed, developed and supports web-based content and application for the e-commerce applications using�**POJO,**�**JSP, JavaScript, HTML.**
* Front-End validations are done using�**JSP.**
* Written�**UNIX scripts**�and run/review production jobs in the UNIX environment
* Communicate issues and progress to project manager
* Effectively resolved�**QA Trackers**

**Environment:**�Oracle 10g, PL/SQL, Linux, Shell scripting, Java/J2EE, XML, DBArtisan, PVCS Tracker

**Confidential�KY**  
**Software Engineer/Oracle Developer�NOV 2008-SEP 2009**  
**Project: FQ (Field Quality)**

**Description:**�The FQ system is a critical application that generates measurements on the performance of the GE Appliance business. These measurements are Service Call Rate (SCR), Current Manufacturing Index (CMI), Manufacturing Warranty Rate (MWR), Warranty Parts Rate (WPR), Warranty Part Calls (WPC), NPS-SEARS business measurement and Fault Call Rate (FCR).The measurements are absolute indices and are generated every month. FQ in it does not “own” any of the data that is used in these measurements rather it is dependent on other functions to provide the data. The system basically receives the data from other applications and applies algorithms to the data to generate the measurements on a monthly basis.  
**Responsibilities:**

* Involved in all the phases of the�**SDLC**�both technically and from the business point of view.
* Initiated utilization of Data Warehouse ETL software during migration of legacy data in IMS to Oracle, saving over 50% of total project cost by reducing contract programming
* Translated business and user expectations into detailed functional and technical specifications.
* Schedule meetings and present technical issues to business users and developers.
* Performed logical and physical�**Data Modeling/ER-Modeling�**using Erwin.
* Extensively developed�**complex PL/SQL packages for Invoice Processing.**
* Designed/developed�**tables**,�**views**, various�**SQL queries**,�**stored procedures, functions.**
* Involved in�**PL/SQL**�**code review and modification**�for the development of new requirements.
* Extensively worked with�**Analytical Functions, Dynamic SQL**�,**Composite data types**�&�**Global Temporary Tables**
* Used�**Pl/Sql tables, array**�structures as a part of oracle collections.
* Wrote�**SQL Loader**�scripts for Import/Export data files.
* Involved in�**partitioning**�of very large tables. Used�**list and range�**partitioning.
* Seasoned in optimizing Query performance**�using explain plan , SQL Trace and TKPROF�**utility
* Create & maintained box jobs using Shell**�Scripts.**
* Developed scenarios for�**Unit**,�**Integration testing**�to ensure that all the components work correctly when integrated.
* Performed key role as technical consultant during transition from IBM Mainframe to client/server model.
* Communicate issues and progress to project manager.
* Solving day-to-day problems, giving support to the users.
* Involved in�**Production Support and troubleshooting data quality and integrity issues**

**Environment:**�Oracle 10g, PL/SQL, HP Unix, Unix shell scripting, Mainframe Cobol Maestro, VB

Confidential NJ jun 2007 – SEP 2008�  
**Consultant, Oracle Developer**  
Project: Rebate Management System�  
The Rebate Management System consists of CARS/IS application, CARS/IS reporting environment and various operational systems like SCORE, DISTRACK, JDE financial application modules etc., .The process of rebate calculation is based on very intricate algorithms which utilize product, vendor , customer, contract, sales and purchase data. To separate the process of reporting from transactional processing, a separate database containing abstracted data from CARS/IS has been created. The Data Base records all the information about the different entities like product, supplier, and customer and their associated eligibility on contracts. The database design is based on RDBMS & Data warehousing (star schema) concepts.  
**Responsibilities:**

* Interacted with end users to gather requirement specifications for enhancements and translated the business rules as defined by them to technical specifications.
* Updated and maintained the�**SMTD**�and�**EPD�**document for RMS.
* Involved in the preparation of�**High Level Design Document**�for RMS Pricing Redesign.
* Worked under the supervision of a DBA and created database objects such as tables, views, sequences, synonyms, and table/column constraints, indexes for�**enhancement.**
* Extensively developed**�complex PL/SQL packages�**for Pricing.
* Written complex SQL using**�joins**,�**sub-queries�**and�**correlated sub-queries.**
* Created Informatica Mappings with�**PL/SQL procedures**�to build business rules to load data using transformations like�**Source Qualifier, Aggregator, Sorter, Expression, Joiner, Connected and Unconnected lookups, Filters, Sequence, Router and Update strategy.**
* Used�**debugger**�to test the mapping and fixed the bugs.
* Worked with pmcmd to interact with�**Informatica**�Server from command mode
* Applied�**Performance Tuning**�logic to optimize session performance.
* Attended business user sessions to make changes in warehouse loads.
* Creating�**Materialized views**�to fix the performance issues with views
* Involved in SQL Query Tuning by generating�**Plan Table**,�**Explain Plan**,�**Optimizer with Hints**,�**Analyze**,�**Indexing strategy**,�**SQL Trace**,�**TKPROF**�etc.
* Tune the SQL queries using�**SQL Hints**�wherever suitable.
* Work with the DA and the DBA to�**Create Indexes**�or�**Partition Database Components**
* **Reports**�were developed and enhanced using�**Business Objects 5.1**�and Web-Based reports using�**Web-Intelligence 2.5**.
* Developed�**UNIX shell scripts**�to run the batch jobs and scheduled batch jobs using�**Autosys**
* Responsible for�**Tier3 production support.**

**Environment:�Oracle 9i, PL/SQL, HP Unix, Unix shell scripting, Toad, Informatica, Business Objects, Visio ,Clarify CRM ,CVS, Autosys**

**Confidential�FEB 2005 -May 2007**

**Software Developer**

**Description:**�Paramount Enterprise is a major supplier of fasteners to all the leading vehicles and engine manufacturers in India. The company’s products are exported to various quality conscious markets like USA, UK and GERMANY. The project was to group data in the financial department to generate reports for different categories  
**Responsibilities:**

* **Stored procedures**�and�**triggers�**were developed for business rules.
* Involved in writing�**procedural scripts using PL/SQL.**
* Involved in coding and testing of the system
* Created GUI for end users and generated various types of reportsby using reports builder

**Environment:**�**Oracle**,�**PL/SQL**,�**Windows NT**,�**Oracle Forms**,�**Reports**