

JOB TITLE – Software Development Engineer

Oracle PL SQL Developer

Position reports to : Product Owner
Office Location : Adapt IT Johannesburg Campus

PURPOSE OF THE POSITION

The Software Development Team of Adapt IT Education delivers solutions for higher education on a global basis. As a developer you will be responsible for developing, maintaining and supporting our solutions with specific focus on developing and API layer for the ITS Integrator system. In the role you will be required to do PL/SQL development.

PRIMARY RESPONSIBILITIES FOR THE ROLE

a) PL/SQL development work

- Developed complex database objects like stored procedures, functions, packages and triggers using SQL and PL/SQL.
- Development of Restful web services using ORDS (Oracle Restful Data Services) and PL/SQL.
- Create and maintain indexes, constraints, tables, PL/SQL store procedures & packages and produce queries to answer business questions.
- Tune the SQL queries as well as PL/SQL programs using hints, indexes, partitions and other performance tuning techniques.
- Create or review Linux scripts required to implement PL/SQL packages developed.
- Create synonyms and grant privileges on schema objects for other users to be able to share and access content.
- Create numerous simple to complex queries involving self joins, correlate sub-queries, functions, cursors, dynamic SQL.
- Ensure the solution performs efficiently delivering a solution in which throughput rates, response and processing times meet stated requirements. Effectively and efficiently utilise resources to ensure the maximum operational capacity requirement is achieved or exceeded.
- Ensure the solution is reliable, robust, maintainable and durable. The solution simplifies support and maintenance through traceability and effective error messaging.

b) Ensure Quality Software Solutions are developed

- Create test cases and test reports and work with QA team to validate the data and scenarios.
- Use diagnostic tools/techniques to identify the root cause of software failures.
- Perform trouble shooting and effectively resolve issues to increase solution stability and reduce intervention required over time.
- Recommend and execute improvements to software.

c) Developer Testing and Verification



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- Ensure the solution is test friendly by creating effective mechanisms for test data, automated testing hooks and simulations.
- Ensure reported defects are categorised by priority and fixed as appropriate.
- Ensure the project management team is informed of potential risks stemming from defects.

d) Mentorship / Training

- Provide mentorship and guidance to internal staff on technical and system processes.
- Perform internal training for technical staff as required.
- Ability to mentor and assist others, and to lead internal training sessions
- Mentor junior resources on specialised knowledge

QUALIFICATION AND EXPERIENCE REQUIREMENTS

- BSc (Computer Science or Information Systems) /B Com (Information Systems)/Diploma in Information Systems.
- Minimum 5 years of programming experience as an Oracle PL/SQL developer in analysis, design and implementation of business applications using the oracle relational database management system, with restful services experience.
- Involved in all phases of the SDLC from analysis, design, development, testing, implementation and maintenance with timely delivery against aggressive deadlines.
- Experience with data flow diagrams, data dictionary, database normalization theory techniques, entity relation modelling and design techniques.
- Effectively made use of table functions, indexes, table partitioning, collections, analytical functions, materialized views, query re-write and transportable table spaces.

SKILLS

- Databases: Oracle 19C (SQL, PL/SQL, stored procedures, triggers)
- Experience with RESTful Services, JSON and Oracle ORDS (Oracle Restful Data Services) is paramount.
- Experience with Swagger Open API standard and YAML is a distinct advantage.
- Oracle SQL/PL-SQL developer certification is an advantage.
- Languages/utilities: SQL, PL/SQL, JSON, Java, XML.
- Source control: Bitbucket, SVN (subversion), Git/GitHub etc.
- Understanding of the full scope of application development (authentication, integrating with APIs, build process, testing, validation, state management)

ATTRIBUTES

a) Personal Attributes and Qualities

- Mature individual with high level of emotional intelligence.
 - Ability/Capacity to be aware of, control, and express emotions.
 - Handle interpersonal relationships judiciously and empathetically.
- Demonstrate positivity, mental toughness and stability during stressful periods and periods of low activity.
 - Flexibility – adapt to new concepts and ideas, ability to collaborate.



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- Resilience – demonstrate ability to move forward despite setbacks.
- Endurance – consistently deliver at peak performance over the long term.
- Self-motivated, with the ability to motivate others.
- Ability to work independently and as part of a team.
- Ability to work under pressure.
- Admit to errors and takes corrective action to avoid repetition.
- Approach own work with dedication and high sense of responsibility.
- Identify, analyse, organize, and solve problems and issues in a timely and effective manner.
- Anticipate problems, identify root causes, and take corrective action.
- Take caution in preparing the details relevant to the process.
- Follow process to ensure high quality output.
- Set and achieve goals, consistently complies with quality standards, and meets deadlines.

Contact Person: [Quraisha Moola](#)

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