inimum 2-3 years working experience as a data analyst or business data analyst

Strong understanding of IT environments, IT security, networking and server architecture

Strong knowledge of and experience with reporting packages (Business Objects, etc.), databases (SQL. etc.), programming (XML, Javascript, or ETL frameworks)

Strong working experience in one or more ERP’s e.g. SAP, Oracle, MS Navision, SAGE, AccPac etc. and associated ETL tools

Working experience in SpotFire, PowerBi, Python and Alteryx

2. Experience in Data mining, machine learning and visual studios  
extensive knowledge of best practices/methodologies in data warehousing and multi-dimensional data modelling (OLAP e.g. ESSBASE or Microsoft Analysis Services), system design and management;  
Extensive knowledge of most data modelling techniques  
Extensive knowledge of the most common RDBMS technologies (e.g. Oracle, IBM, SQLServer, MySQL)  
Experience in deploying and managing big bata environments (e.g. HADOOP, SPARK and NoSQL)  
Knowledge of database query languages (e.g. SQL);  
experience with a variety of programming languages, including but not limited to JAVA or C#; and  
Experience in using a broad variety of integration techniques, patterns, tools and methodologies

3. Strong knowledge of and experience with reporting packages (Business Objects etc), databases (SQL etc), programming (XML, Javascript, or ETL frameworks).  
Knowledge of statistics and experience using statistical packages for analyzing datasets (Excel, SPSS, SAS etc).  
Strong analytical skills with the ability to collect, organize, analyze, and disseminate significant amounts of information with attention to detail and accuracy.  
Adept at queries, report writing and presenting findings.  
BS in Mathematics, Economics, Computer Science, Information Management or Statistics.

4. Identifying solutions to the problems that creates that value for the business user.  
Implementing solutions that create value for the business user through mediums such as:  
Visual Dashboards;  
Forecasting/predictive models;  
Statistical modelling;  
Improvement of processes.  
**Improving the overall data pipelines:**  
Developing data structures to enable automated data quality testing and improved data governance as well as reusability.  
Adopting a DataOps principles-based approach to all work.  
Collaborating with team members on projects.  
Continuous researching and developing of personal technical, business and mathematical skills.Completed Tertiary Qualification in Engineering or Bachelor of Science Degree is essential with strong preference for an Honours Degree qualification.  
Analytical experience of solving business problems through analytical approaches (1 -5 years).  
Experience with SQL is a must have.  
Experience with Excel + Power BI (or other visualisation tools) + Python is an advantage.  
Good stakeholder communication skills.  
Able to apply mathematical concepts to business problems.  
Great problem solving skills.  
Experience in DataOps type environments or projects is advantageous.

5. Key Responsibilities And/or Outputs  
  
Interpret data, analyze results and interpret trends enabling continuous improvement in data quality and overall business performance  
Create detailed specifications that specify data sources, data flows, data transformations, data storage and reporting  
Produce documentation such as source-to-target-maps, data dictionaries and data models  
Create test cases and scenarios used to ensure quality assurance  
Interact and collaborate with technical and business stakeholders to identify data sources, find data definitions for master and metadata as well as formulate and implement solutions  
Promote the use of existing enterprise and divisional data standards to enhance data quality, ensure constant compliance and adherence to data governance principles  
Promote reusability, maintainability, reliability, and scalability in design and development of data solutions  
Process live and confidential data according to specified guidelines  
Evaluate changes and updates to source production systems that could impact reporting and eventually business decisions

Demonstrates knowledge of database and data warehouse design  
Proven experience building logical and physical data models using industry best practices, patterns and frameworks  
Practical technical experience using database management tools(SQL) and reporting tools(Power BI)  
Familiarity with BI methodologies such as Kimball and Inman  
Has analytical skills and demonstrates a deep interest in research  
Demonstrates the ability to collect, organize, analyze, and disseminate significant amounts of information with attention to detail and accuracy  
Ability to draw actionable insights from raw data and information to help further the businesss cause  
Ability to communicate well with different types of stakeholders, adapt to different project environments and play a flexible role in projects  
Have a drivers' license and a willingness to travel

6. **Data Analyst Responsibilities:**  
  
• Managing master data, including creation, updates, and deletion.  
• Managing users and user roles.  
• Provide quality assurance of imported data, working with quality assurance analyst if necessary.  
• Commissioning and decommissioning of data sets.  
• Processing confidential data and information according to guidelines.  
• Helping develop reports and analysis.  
• Managing and designing the reporting environment, including data sources, security, and metadata.  
• Supporting the data warehouse in identifying and revising reporting requirements.  
• Supporting initiatives for data integrity and normalization.  
• Assessing tests and implementing new or upgraded software and assisting with strategic decisions on new systems.  
• Generating reports from single or multiple systems.  
• Troubleshooting the reporting database environment and reports.  
• Evaluating changes and updates to source production systems.  
• Training end users on new reports and dashboards.  
• Providing technical expertise on data storage structures, data mining, and data cleansing.  
  
**Data Analyst Requirements:**  
  
• Bachelors degree from an accredited university or college in computer science.  
• Work experience as a data analyst or in related field.  
Ability to work with stakeholders to assess potential risks.  
• Ability to analyze existing tools and databases and provide software solution recommendations.  
• Ability to translate business requirements into non-technical, lay terms.  
• High-level experience in methodologies and processes for managing large scale databases.  
• Demonstrated experience in handling large data sets and relational databases.  
• Understanding of addressing and metadata standards.  
• High-level written and verbal communication skills.

7. Proficiency using a version control system (e.g. Git)  
Agile working environment (JIRA experience advantageous)  
Two or more years of experience working in one of the following:  
a multi-disciplinary team  
an academic research environment  
a governmental or non-profit research organisation  
Productive within a Linux command line environment  
Dockerizing software, microservices.