ORT SA
Educating for Life

Application of SQL in Big Data Analytics

Remedial Assessment: 08.10.2025

Saving Instructions

- Create a folder named **SQL YOURNAME** on your computer's desktop and **save** all your queries in that folder.
- Observe primary and foreign keys throughout the assessment.
- Please make sure to save your work as you work on the questions and copy your code on a text file for backup.

1. Write a query to create a database called **ZeroBankDB_YourName** for a bank. [2]
2. The bank keeps records of its banking clients in the database in a table called **ClientRecords** with the following fields:

   Account Number, First Name, Surname, Account Type, Client Address, Account Balance. [2]
3. Write a query to capture records of **5 clients** into the Bank's database. [5]
4. The bank has branches all over South Africa and each branch has the following details kept in a table called **Branches** with the following fields:

   Branch Code, Branch Name, Branch Manager, Branch Address, City, Region, (Region: Gauteng, Free State, North West, Western Cape, Eastern Cape, Limpopo). [2]
5. Write a query to capture the details of **8 bank branches** into the database. [5]
6. The bank captures all transactions into a table called **Trans** with the following fields:

   Account Number, Branch Code, Transaction Classification, Amount. [2]
7. Write a query to capture **10 transactions** into the **Trans** table. [5]
8. Write a query to add a **Date** field to the **Trans** table. [5]
9. Write a query to capture **10 transaction dates** into the **Trans** table. [5]
10. Write a query to display all clients showing their **Account Number, Name, Surname** and their **Account Balance**. [2]
11. Write a query to display all branches showing the **Branch Code, Branch Name** and **City**. [2]
12. Write a query to display records of all transactions showing the following details: [2]

    Branch Code, Account Number, Transaction Classification, Date, Amount [3]

13. Write a query to display only unique transactions. [2]
14. Given an **Account Number**, write a query to show transactions captured for that client showing the **Account Number**, **Branch Code, Branch Name, Transaction Classification, Date** and the **Amount**. [3]
15. Write a query to show all transaction records in ascending order of the **Account Number**. [3]