**Instructions:**

Please share your answers filled in line in the Word document. Submitcode

separately wherever applicable.

Please ensure you update all the details:

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_ Batch ID:** \_\_\_\_\_\_\_\_\_\_\_

**Topic: Introduction to Database**

1. **Write an SQL query to accomplish the following tasks:**

* 1. Create a database named **student\_db**.
  2. Create a table named **students\_details** with columns **id** (integer), **name** (varchar), **age** (integer), and **grade** (float). id should be set as the primary key.
  3. Insert any four records into **students\_details**.
  4. Create a new table named **students\_details\_copy** with the same columns as **students\_details**. **id** should also be set as the primary key.
  5. Create a trigger named **after\_insert\_details** that inserts a new record into **students\_details\_copy** every time a record is inserted into students\_details.
  6. Insert a new record into **students\_details.**
  7. check whether a record is filling in **students\_details\_copy** as you insert value in **students\_details.**

1. **Write an SQL question that accomplishes the following tasks:**

* 1. use **student\_db ,**
  2. Create a trigger named **update\_grade** that automatically updates the **grade** column every time a record in **students\_details** is updated based on the following criteria:
  3. If the updated record has an age value less than 18, multiply the grade by 0.9.
  4. If the updated record has an age value between 18 and 20 (inclusive), multiply the grade by 1.1.

* 1. If the updated record has an age value greater than 20, multiply the grade by 1.05.
  2. Update the age value of one of the records in students\_new to see the trigger in action.

1. **Explain the difference between the AFTER and INSTEAD OF trigger operators in SQL.**
2. **What is the purpose of the INSTEAD OF DELETE trigger operator in SQL?**