

# SQL Assignment

In this task, you are required to complete the following steps:

## 1. Create a Database

- Create a database named **school\_db**.

## 2. Create a Table

- Create a table named **students\_table** inside the **school\_db** database.
- The table must contain the following fields:
  - **student\_id**
  - **first\_name**
  - **last\_name**
  - **age**
  - **grade**
  - **city**

## 3. Insert Data Into the Table

Insert the following rows into the **students\_table**:

- 1, Ahmad, Ahmad, 17, A, Beirut
- 2, Sara, Khatib, 18, B, Tripoli
- 3, Hassan, Zein, 17, A, Sidon
- 4, Mariam, Ata, 19, C, Beirut
- 5, Khaled, Najjar, 16, B, Tyre
- 6, Reem, Salem, 18, A, Tripoli
- 7, Youssef, Hany, 17, C, Sidon
- 8, Hiba, Zein, 20, B, Beirut
- 9, Fadi, Hashem, 16, A, Tyre
- 10, Layla, Hassan, 17, B, Tripoli

## 4. SELECT Queries

Write SQL SELECT queries for the following tasks:

## 1. Select all fields

- Select all students from **students\_table**.

## 2. Select two specific fields

- Select the **first\_name** and **city** of all students.

## 3. Use comparison operators (=, !=, >, >=, <, <=)

- Select all students whose **grade** is equal to 'B'.
- Select all students whose **city** is not equal to 'Beirut'.
- Select all students whose **age** is greater than 17.
- Select all students whose **age** is greater than or equal to 18.
- Select all students whose **student\_id** is less than 5.
- Select all students whose **age** is less than or equal to 16.

## 4. Use IS and IS NOT

- Select all students whose **city** is NULL.
- Select all students whose **city** is NOT NULL.

## 5. Use BETWEEN

- Select all students whose **age** is between 17 and 19.

## 6. Use AND

- Select all students whose **age** is greater than 17 AND whose **grade** is 'A'.

## 7. Use OR

- Select all students who live in **Beirut** OR **Tripoli**.

## 5. Update Operations

Write SQL UPDATE queries for the following tasks:

- Update the **grade** of the student with **student\_id = 4** to 'A'.
- Update the **city** to 'Beirut' for all students whose current **city** is 'Tripoli'.

## 6. Delete Operations

Write SQL DELETE queries for the following tasks:

- Delete the student whose **student\_id** is 10.
- Delete all students whose **age** is less than 17.