# **Assignment Questions and Answers**

## 1. Basic SQL Queries

## **Question 1:**

Write a SQL query to retrieve all columns from a table named employees.

#### Answer:

SELECT \* FROM employees;

## **Question 2:**

Write a SQL query to retrieve the emp\_id, emp\_name, and dept\_id from the employees table, where the location is 'Cairo'.

### **Answer:**

SELECT emp\_id, emp\_name, dept\_id FROM employees WHERE location = 'Cairo';

## 2. DISTINCT Keyword

## **Question:**

Write a SQL query that displays distinct dept\_id values from the employees table.

#### **Answer:**

SELECT DISTINCT dept\_id FROM employees;

## 3. Data Definition Language (DDL)

## **Question 1:**

Write a SQL query to create a table students with the following columns:

- ID (Primary Key),
- First\_Name (not null),
- Last\_Name (default 'Unknown'),
- Address (default 'N/A'),
- City (default 'N/A'),
- Birth\_Date.

#### Answer:

```
CREATE TABLE students (
ID INT PRIMARY KEY,
First_Name VARCHAR(50) NOT NULL,
Last_Name VARCHAR(50) DEFAULT 'Unknown',
Address VARCHAR(100) DEFAULT 'N/A',
City VARCHAR(50) DEFAULT 'N/A',
Birth_Date DATE
);
```

## **Question 2:**

Write a SQL query to drop the students table.

#### **Answer:**

DROP TABLE students;

## 4. Data Manipulation Language (DML)

### **Question 1:**

Write a SQL query to insert the following values into the students table: ('Ahmed', 'Ali', 'Downtown', 'Cairo', '1995-01-01').

#### Answer:

INSERT INTO students (First\_Name, Last\_Name, Address, City, Birth\_Date) VALUES ('Ahmed', 'Ali', 'Downtown', 'Cairo', '1995-01-01');

## **Question 2:**

Write a SQL query to update the Address of the student with Last\_Name = 'Ahmed' to 'Garden City'.

#### Answer:

UPDATE students
SET Address = 'Garden City'
WHERE Last\_Name = 'Ahmed';

### 5. Transaction Control

### Question:

Write a SQL query to delete the rows from the students table where City is 'Cairo', and then rollback the transaction.

#### Answer:

BEGIN TRANSACTION;

DELETE FROM students WHERE City = 'Cairo';

ROLLBACK;