### **Assignment Questions:**

1. **Basic SQL Queries:**
   * Write a SQL query to retrieve all columns from a table named employees.

SELECT \*

FROM employees

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

SELECT (emp\_id, emp\_name, dept\_id)

FROM employees

WHERE location = 'Cairo'

1. **DISTINCT Keyword:**
   * Write a SQL query that displays distinct dept\_id values from the employees table.

SELECT DISTINCT dept\_id

FROM employees

1. **Data Definition Language (DDL):**
   * 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'), and Birth\_Date.

CREATE TABLE students (

ID INT PRIMARY KEY IDENTITY (1,1),

First\_Name NVARCHAR (50) NOT NULL,

LAST\_Name NVARCHAR (50) DEFULT ”UNKNOW”,

ADDRESS NVARCHAR (50) DEFULT ”N/A”,

CITY NVARCHAR (50) DEFULT ”N/A”,

BIRTH\_DATE DATE

);

* + Write a SQL query to drop the students table.

DROP TABLE students;

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

INSEERT INTO students

VALUES ('Ahmed', 'Ali', 'Downtown', 'Cairo', '1995-01-01');

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

UPDATE students

SET Address='Garden City'

WHERE Last\_Name = 'Ahmed';

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

BEGAIN TRANSACTION;  
DELETE FROM students  
WHERE City = 'Cairo';  
ROLLBACK;