### **Assignment Questions:**

1. **Basic SQL Queries:**
   * Write a SQL query to retrieve all columns from a table named employees.
   * Write a SQL query to retrieve the emp\_id, emp\_name, and dept\_id from the employees table, where the location is 'Cairo'.
2. **DISTINCT Keyword:**
   * Write a SQL query that displays distinct dept\_id values from the employees table.
3. **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.
   * Write a SQL query to drop the students table.
4. **Data Manipulation Language (DML):**
   * Write a SQL query to insert the following values into the students table: ('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'.
5. **Transaction Control:**
   * Write a SQL query to delete the rows from the students table where City is 'Cairo', and then rollback the transaction.

Answers :

1. **Basic SQL Queries:**
   * SELECT \* FROM employees.
   * SELECT emp\_id, emp\_name,dept\_id FROM employees WHERE location = ‘Cairo’;

**2 DISTINCT Keyword:**

* + SELECT DISTINCT dept\_day FROM employees .

1. **Data Definition Language (DDL):**
   1. CREATE TABLE students (ID INT PRIMARY KEY,First\_Name VARCHAR(100)NOT NULL, Last\_Name VARCHAR(100) DEFAULT 'Unknown',

Address VARCHAR(255) DEFAULT 'N/A' ,City VARCHAR(100) DEFAULT 'N/A', Birth\_Date DATE );

* 1. DROP TABEL students ;

1. **Data Manipulation Language (DML):**
   1. INSERT INTO students(First\_Name, Last\_Name, Address, City, Birth\_Date) VALUES ('Ahmed', 'Ali', 'Downtown', 'Cairo', '1995-01-01');
   2. UPDATE students SET Address = 'Garden City' WHERE Last\_Name = 'Ahmed' ;
2. **Transaction Control:**
   1. DELETE FROM students WHERE City = 'Cairo';

ROLLBACK;