

## **Assignment 5:**

**Name: Basant medhat**

**1.**

**a. Retrieve all columns from the employees table:**

```
SELECT * FROM employees;
```

**b. Retrieve emp\_id, emp\_name, and dept\_id where the location is 'Cairo':**

```
SELECT emp_id, emp_name, dept_id FROM employees WHERE location = 'Cairo';
```

**2. DISTINCT Keyword:**

```
SELECT DISTINCT dept_id FROM employees;
```

**3. Data Definition Language (DDL):**

**a. Create a table students:**

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

**b. Drop the students table:**

```
DROP TABLE students;
```

**4. Data Manipulation Language (DML):**

**a. Insert values into the students table:**

```
INSERT INTO students (First_Name, Last_Name, Address, City, Birth_Date)  
VALUES ('Ahmed', 'Ali', 'Downtown', 'Cairo', '1995-01-01');
```

**b. Update the Address of a student with Last\_Name = 'Ahmed' to 'Garden City':**

UPDATE students

SET Address = 'Garden City'

WHERE Last\_Name = 'Ahmed';

**5. Transaction Control:**

Delete rows where City = 'Cairo' and rollback the transaction:

BEGIN TRANSACTION;

DELETE FROM students

WHERE City = 'Cairo';

**-- Rollback the transaction**

ROLLBACK;