

# Assignment 5

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## 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, deptid FROM employees WHERE location = "Cairo"
```

### 2. DISTINCT Keyword:

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

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

### 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.

```
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);
```

- Write a SQL query to drop the students table.

```
DROP TABLE students;
```

### 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').

```
INSERT INTO students (first_Name, last_Name, Address, city, Birth_date) 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';
```

## 5. Transaction Control:

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

```
DELETE FROM students WHERE City = 'Cairo';  
ROLLBACK;
```