

Assignment 5

Name : Omar ahmad abdelaziz ahmad

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';
```

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: 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;