Task 2 :

Data Insertion and Handling Nulls Objective: Practice inserting, updating, and deleting data.

Tools : DB Fiddle / SQLiteStudio

Deliverables: SQL file with INSERT, UPDATE, DELETE statements.

Create Table:

CREATE TABLE students (

    student_id INTEGER PRIMARY KEY,

    name TEXT NOT NULL,

    age INTEGER,

    email TEXT

);

## Insert data:

Student Table:

| student_id	name	age	email
1	Alice	21	alice@example.com
2	Bob	NULL	bob@example.com
3	Charlie	23	NULL
4	Diana	NULL	NULL

Update Null Values:

- UPDATE students SET age = 20 WHERE age IS NULL;

- UPDATE students SET email = 'not_provided@example.com' WHERE email IS NULL;

```sql
SQLite                          ▶ ☑ ⋮

UPDATE students
SET email = 'not_provided@example.com'
WHERE email IS NULL;
                                      13:56:42
```

```sql
SQLite                          ▶ ☑ ⋮

UPDATE students
SET age = 20
WHERE age IS NULL;
                                      13:56:35
```

student_id	name	age	email
1	Alice	21	alice@example.com
2	Bob	20	bob@example.com
3	Charlie	23	not_provided@example.com
4	Diana	20	not_provided@example.com

Delete Records:

```sql
SQLite                          ▶ ☑ ⋮

DELETE FROM students
WHERE student_id = 4;
                                      14:03:09
```

```sql
SQLite                          ▶ ☑ ⋮

DELETE FROM students
WHERE email = 'not_provided@example.com
                                      14:03:01
```

student_id	name	age	email
1	Alice	21	alice@example.com
2	Bob	20	bob@example.com