```
1   CREATE TABLE "student" (
2       "id" INTEGER PRIMARY KEY,
3       "roll_no" VARCHAR(10) NOT NULL UNIQUE,
4       "name" VARCHAR(20) NOT NULL,
5       "address" VARCHAR(50),
6       "age" INTEGER,
7       "department" VARCHAR(30)
8   );
9
```

```
Execution finished without errors.
Result: query executed successfully. Took 1ms
At line 1:
CREATE TABLE "student" (
    "id" INTEGER PRIMARY KEY,
    "roll_no" VARCHAR(10) NOT NULL UNIQUE,
    "name" VARCHAR(20) NOT NULL,
    "address" VARCHAR(50),
    "age" INTEGER,
    "department" VARCHAR(30)
);
```

Lab3task2:

```
1   INSERT INTO "student" ("roll_no", "name", "address", "age", "department")
2   VALUES
3   ('11IT01', 'Kamran', 'Nawabshah', 23, 'IT'),
4   ('11IT02', 'Bilal', 'Hyderabad', 22, 'IT'),
5   ('11EE01', 'Irfan', 'Karachi', 23, 'EE'),
6   ('11CE01', 'Hina', 'Hyderabad', 22, 'CE');
7
```

```
Execution finished without errors.
Result: query executed successfully. Took 0ms, 4 rows affected
At line 1:
INSERT INTO "student" ("roll_no", "name", "address", "age", "department")
VALUES
('11IT01', 'Kamran', 'Nawabshah', 23, 'IT'),
('11IT02', 'Bilal', 'Hyderabad', 22, 'IT'),
('11EE01', 'Irfan', 'Karachi', 23, 'EE'),
('11CE01', 'Hina', 'Hyderabad', 22, 'CE');
```

Lab3task3:

```
1   ALTER TABLE "student" ADD COLUMN "F_Name" VARCHAR(50);
2
```

```
1   ALTER TABLE "student" DROP COLUMN "F_Name";
2
```

```
Execution finished without errors.
Result: query executed successfully. Took 0ms
At line 1:
ALTER TABLE "student" ADD COLUMN "F_Name" VARCHAR(50);
```

Lab3task4:

```
Execution finished without errors.
Result: query executed successfully. Took 0ms
At line 1:
ALTER TABLE "student" DROP COLUMN "F_Name";
```

Lab3task6:

Qno5: Changing the datatype of roll no from CHAR (10) to VARCHAR (10).
=>ALTER TABLE "student" ALTER COLUMN "roll no" TYPE VARCHAR (10); **// don't work on sqlite3**

Qno7: What will be the result of the following queries?

 a) UPDATE "student"
    SET "address" = 'Larkana'
    WHERE "roll no" = '11IT02';
ANS: This will update the address of the student with roll no = '11IT02' to 'Larkana'.

b) DELETE FROM "student"
    WHERE "roll no" = '11EE01';
ANS: This will delete the record of the student with roll no '11EE01' from the table.

c) UPDATE "student"
    SET "address" = 'Nawabshah', "department" = 'ME';
ANS: This will update the address and department of all students to 'Nawabshah' and 'ME' respectively, as there is no WHERE clause to filter specific rows.

d) DROP TABLE "student";
ANS: This will permanently delete the "student" table and all its data from the database.

e) DROP DATABASE "uni";
ANS: This command is invalid in SQLite because it does not support dropping an entire database with SQL commands. Database deletion must be done manually by removing the .db file.