NAME: NUR ALEEYA ALEESYA BINTI HEZRIE

STUDENT ID: 2022892198

GROUP: CDCS1103C

1. Create new database (LEARN)

```
414 • CREATE DATABASE LEARN_ALEESYA;

2 14:31:23 CREATE DATABASE LEARN_ALEESYA
```

2. Create table statement.

STUDENT TABLE

```
418 • © CREATE TABLE STUDENT (
419 STUD_ID VARCHAR(10) NOT NULL UNIQUE,
420 STUD_NAME VARCHAR(50) NOT NULL,
421 STUD_PROG VARCHAR(15),
422 STUD_CGPA DECIMAL(5, 2),
423 PRIMARY KEY (STUD_ID));
```

LECTURER TABLE

```
428 • CREATE TABLE LECTURER (
429 LEC_ID VARCHAR(6) NOT NULL UNIQUE,
430 LEC_NAME VARCHAR(50) NOT NULL,
431 LEC_FACULTY VARCHAR(6),
432 SALARY DECIMAL(8, 2),
433 PRIMARY KEY (LEC_ID));
434
```

TEACH TABLE

```
437 • CREATE TABLE TEACH (

438 TEACH_ID INTEGER NOT NULL UNIQUE,

439 STUD_ID VARCHAR(10) NOT NULL,

440 LEC_ID VARCHAR(6),

441 SEMESTER VARCHAR(10),

442 PRIMARY KEY (TEACH_ID),

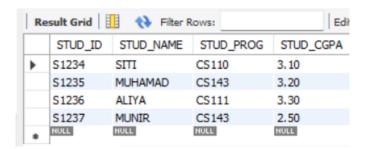
FOREIGN KEY (STUD_ID) REFERENCES STUDENT(STUD_ID),

444 FOREIGN KEY (LEC_ID) REFERENCES LECTURER(LEC_ID));
```

3. Insert record into the table.

STUDENT TABLE

```
448 • INSERT INTO STUDENT VALUES ('S1234', 'SITI', 'CS110', 3.1);
449 • INSERT INTO STUDENT VALUES ('S1235', 'MUHAMAD', 'CS143', 3.2);
450 • INSERT INTO STUDENT VALUES ('S1236', 'ALIYA', 'CS111', 3.3);
451 • INSERT INTO STUDENT VALUES ('S1237', 'MUNIR', 'CS143', 2.5);
```



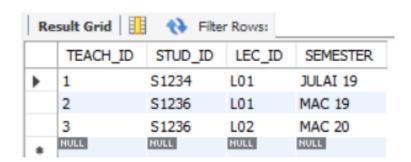
LECTURER TABLE

```
453 • INSERT INTO LECTURER VALUES ('L01', 'NASIR', 'CS143', 3000.00);
454 • INSERT INTO LECTURER VALUES ('L02', 'SITI ROZANA', 'CS110', 4000.00);
455 • INSERT INTO LECTURER VALUES ('L03', 'SAMSIAH', 'CS110', 2500.00);
```



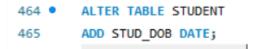
TEACH TABLE

```
457 • INSERT INTO TEACH VALUES (1, 'S1234', 'L01', 'JULAI 19');
458 • INSERT INTO TEACH VALUES (2, 'S1236', 'L01', 'MAC 19');
459 • INSERT INTO TEACH VALUES (3, 'S1236', 'L02', 'MAC 20');
```

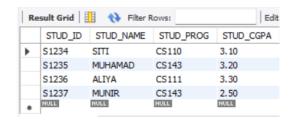


4. Altering the table structure

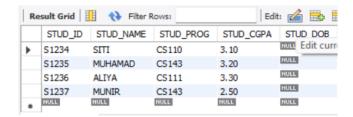
a) Add new column stud_DOB in student table. (Show the table record before add and after add)



BEFORE ALTER TABLE:



AFTER ALTER TABLE:



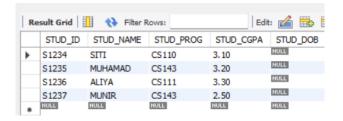
b) Remove STUD_ADDRESS from student table. (Show the table record before and after remove)

467 • ALTER TABLE STUDENT
468 DROP STUD ADDRESS;

BEFORE ALTER TABLE:



AFTER ALTER TABLE:



5. Update data

a) Update student name 'Siti' to 'Siti Rahimah' for student ID S1234. (Show table record before and after update)

```
470 • UPDATE STUDENT

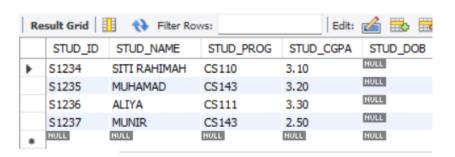
471 SET STUD_NAME = 'SITI RAHIMAH'

472 WHERE STUD ID = 'S1234';
```

BEFORE UPDATE TABLE:



AFTER UPDATE TABLE:



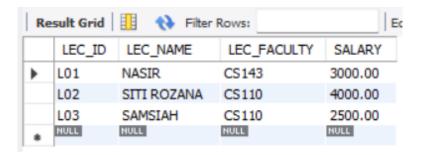
b) Update lecture name to Mohd Nasir and salary 6000.00 for lecturer ID L01. (Show table record before and after update)

```
474 • UPDATE LECTURER

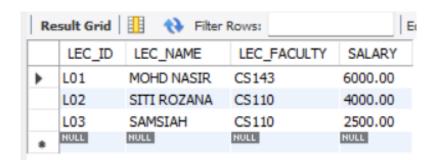
475 SET LEC_NAME = 'MOHD NASIR', SALARY = 6000.00

476 WHERE LEC_ID = 'L01';
```

BEFORE UPDATE TABLE:



AFTER UPDATE TABLE:



6. Delete table rows

a) Delete record student where student ID 'S1237'. Show the table before and after delete)

BEFORE DELETE:



AFTER DELETE:

