

EXERCISE: 1 DBT.

Q.1 PROFESSOR TABLE

QUERIES:

CREATE DATABASE UNIVERSITY;

CREATE TABLE PROFESSOR(

SIN INT PRIMARY KEY,

NAME VARCHAR (20),

AGE INT,

MOBILE_NO INT);

OUTPUT:

```
mysql> DESC PROFESSOR;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| SIN   | int  | NO   | PRI | NULL    |       |
| NAME  | varchar(20) | YES |     | NULL    |       |
| AGE   | int  | YES  |     | NULL    |       |
| MOBILE_NO | int  | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql> SELECT * FROM PROFESSOR;
+-----+-----+-----+-----+
| SIN | NAME | AGE | MOBILE_NO |
+-----+-----+-----+-----+
| 10  | ABC  | 45  | 1234567890 |
| 20  | XYZ  | 45  | 1478523691 |
| 30  | PQR  | 45  | 369852147 |
+-----+-----+-----+-----+
3 rows in set (0.06 sec)

mysql>
```

PRIMARY KEY: SIN

CANDIDATE KEY: SIN, MOBILE_NO.

SUPER KEY:

SIN, MOBILE_NO, {SIN, MOBILE_NO}, {SIN, NAME}, {SIN, AGE} {MOBILE_NO, NAME}, {MOBILE_NO, AGE}

FOREIGN KEY BETWEEN PROFESSOR AND COURSE: SIN.





Q. COURSE TABLE

QUERIES:

```
CREATE TABLE COURSE(  
COURSE_ID INT PRIMARY KEY,  
COURSE_NAME VARCHAR (20),  
DURATION VARCHAR (20));
```

OUTPUT:

```
mysql> DESC COURSE;  
+-----+-----+-----+-----+-----+-----+  
| Field      | Type      | Null | Key | Default | Extra |  
+-----+-----+-----+-----+-----+-----+  
| COURSE_ID  | int       | NO   | PRI | NULL    |       |  
| COURSE_NAME | varchar(20) | YES  |     | NULL    |       |  
| DURATION    | varchar(20) | YES  |     | NULL    |       |  
+-----+-----+-----+-----+-----+-----+  
3 rows in set (0.00 sec)  
  
mysql>
```

 ENG
IN    18:48
03-11-2022

PRIMARY KEY: COURSE_ID.

CANDIDATE KEY: COURSE_ID

SUPER KEY: COURSE_ID , {COURSE_ID, COURSE_NAME}, {COURSE_ID, DURATION}.