Q.1 PROFESSOR TABLE

QUERIES:

CREATE DATABASE UNIVERSITY;

CREATE TABLE PROFESSOR(

SIN INT PRIMARY KEY,

NAME VARCHAR (20),

AGE INT,

MOBILE_NO INT);

OUTPUT:

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}.