

## DBT Assignment\_01

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Q1)A university DB contains information about professors (identified by SIN) and courses (identified by course ID). Professors teach courses; each of the following situations concerns the Teaches relationship set

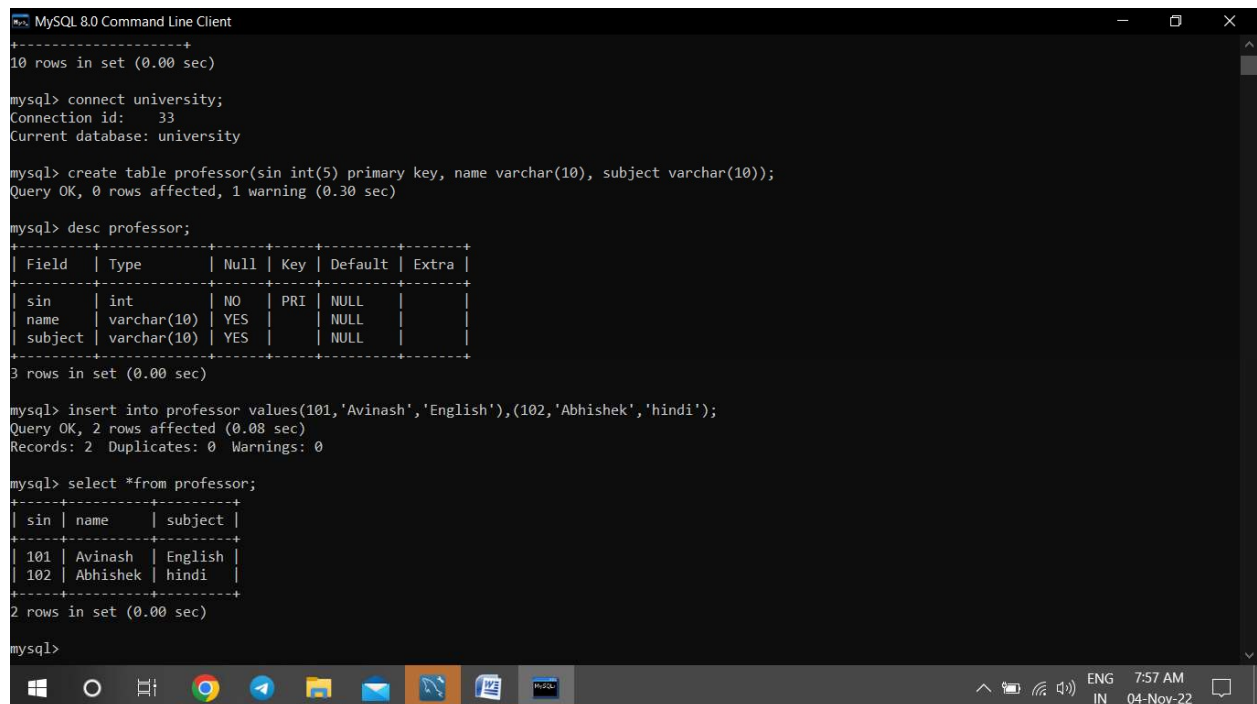
List all candidate keys of the Teaches relationship set. a. Professors can teach the same course in several semesters, and each offering must be recorded. b. Professors can teach the same course in several semesters, but only the most recent such offering needs to be records. Assume the above Situation (b) applies in all subsequent situations.

List all the keys possible in each of the following situations.

a. Every professor teaches a course, and every course is taught by some professor. b. Every professor teaches exactly one course, and every course is taught by exactly one professor.

```
mysql> create table professor(sin int(5) primary key, name varchar(10), subject varchar(10));
```

```
mysql> insert into professor values(101,'Avinash','English'),(102,'Abhishek','hindi');
```



```
MySQL 8.0 Command Line Client
+-----+
10 rows in set (0.00 sec)

mysql> connect university;
Connection id: 33
Current database: university

mysql> create table professor(sin int(5) primary key, name varchar(10), subject varchar(10));
Query OK, 0 rows affected, 1 warning (0.30 sec)

mysql> desc professor;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| sin | int | NO | PRI | NULL | |
| name | varchar(10) | YES | | NULL | |
| subject | varchar(10) | YES | | NULL | |
+-----+
3 rows in set (0.00 sec)

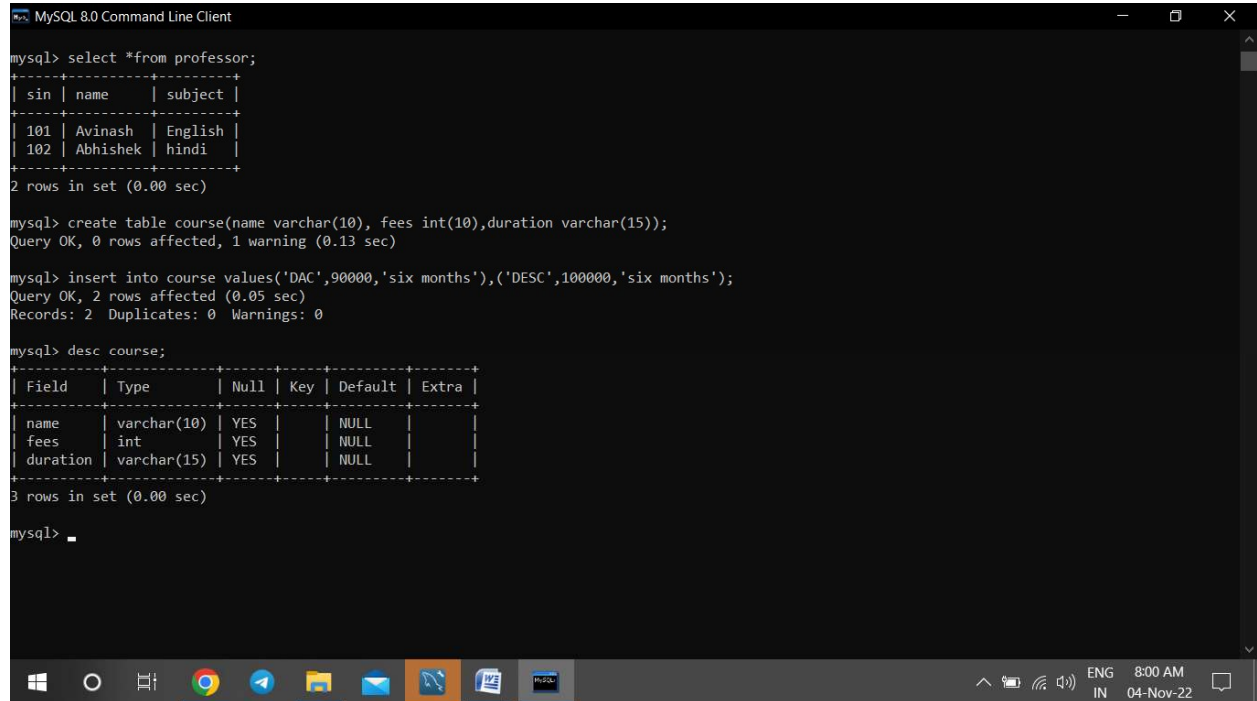
mysql> insert into professor values(101,'Avinash','English'),(102,'Abhishek','hindi');
Query OK, 2 rows affected (0.08 sec)
Records: 2 Duplicates: 0 Warnings: 0

mysql> select *from professor;
+-----+
| sin | name | subject |
+-----+
| 101 | Avinash | English |
| 102 | Abhishek | hindi |
+-----+
2 rows in set (0.00 sec)

mysql>
```

```
mysql> create table course(name varchar(10), fees int(10),duration varchar(15));
```

```
mysql> insert into course values('DAC',90000,'six months'),('DESC',100000,'six months');
```



The screenshot shows a MySQL 8.0 Command Line Client window. The user has executed several commands: a SELECT query on the 'professor' table, a CREATE TABLE statement for 'course', an INSERT statement, and a DESCRIBE query for the 'course' table. The results are displayed in a tabular format.

```
mysql> select *from professor;
+-----+-----+-----+
| sin | name   | subject |
+-----+-----+-----+
| 101 | Avinash | English |
| 102 | Abhishek | hindi  |
+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
mysql> create table course(name varchar(10), fees int(10),duration varchar(15));
Query OK, 0 rows affected, 1 warning (0.13 sec)
```

```
mysql> insert into course values('DAC',90000,'six months'),('DESC',100000,'six months');
Query OK, 2 rows affected (0.05 sec)
Records: 2 Duplicates: 0 Warnings: 0
```

```
mysql> desc course;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| name  | varchar(10) | YES  |     | NULL    |       |
| fees  | int        | YES  |     | NULL    |       |
| duration | varchar(15) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

```
mysql>
```

The Windows taskbar at the bottom shows the time as 8:00 AM on 04-Nov-22, with system icons for network, volume, and language (ENG IN).