Name:- Deval Sandip Chaudhary

Roll no :- 220950320025

**Q.** 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.

## Queries:

create table PROFESSORS(SIN int(10) Primary Key, NAME varchar(20), ADDRESS varchar(20), PHONE\_NUMBER varchar(10));

Create table COURSES\_FROM\_SEMESTER\_1(COURSE\_ID int(5),COURSE\_NAME varchar(20),COURSE\_DURATION varchar(20),SIN int(10));

Alter table COURSES\_FROM\_SEMESTER\_1 add constraint Foreign Key(SIN) references from PROFESSORS(SIN);

insert into PROFESSORS values(111021,"Mr. SADHU SRINIVAS",'AMEERPETH HYD','9876543210'); insert into PROFESSORS values(111022,"Ms. SUSHMITA MEENA",'NIZAMPETH HYD','8765432945'),(111023,"Mr. SAMIR",'CDAC HYD','9665437689'),(111024,"Mr. SRINIVAS KARTIK",'CDAC CAMP\_HYD','9876568767');

insert into PROFESSORS values(111025,"Mr. UDAY KUMAR",'NEAR\_BIRLA\_TEMP','8767548934'); Update COURSES\_FROM\_SEMESTER\_1 set SIN = 111026 where COURSE\_ID = 02467;

Update table COURSES\_FROM\_SEMESTER\_1 set SIN = 111021 where COURSE\_ID = 2462;

insert into COURSES FROM SEMESTER 1 values(02463, 'DBMS', '2 WEEKS', 111022);

insert into COURSES\_FROM\_SEMESTER\_1 values(02464,'DATA STRUCTURE','2 WEEKS',111023),values(02465,'ADVANCE JAVA','3 WEEKS',111024),values(02466,'OPERATINGSYSTEM','3 WEEKS',111024),values(02467,'.NET','2 WEEKS',111025);

## ASSIGNMENT NO 1

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## **Output**

MySQL 8.0 Command Line Client

