

# DATABASE ASSIGNMENT 1

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**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.**

## FLOWCHART:

1.start

2.create database name as university.

3.use university database. 2

4.create table name as professors with SIN is primary key

create table professors

-> (

->SIN int(10) primary key,

-> name varchar(10),

-> course\_teach varchar(10)

->);

5.create table name as course with cid as primary key

create table course

-> (

->cid int(10) primary key,

-> course\_name varchar(10),

-> duration varchar(10),

-> fees varchar(10)

->);

6.create table semester sem\_id is primary key

create table semester

-> (

->sem\_id int(10) primary key,

-> no\_sem int(10)

->);

7.exit

1. CANDIDATE KEY (SIN ,cid ,sem\_id)

2. primary key are SIN,Cid,Sem\_id.

foreign key cid,sem\_id.

Alternate key (SIN,Course\_teach),(cid,fees),(sem\_id,no\_sem)