Name: Swati kshirsagar

Roll no: 220950320067

Assignment: 1

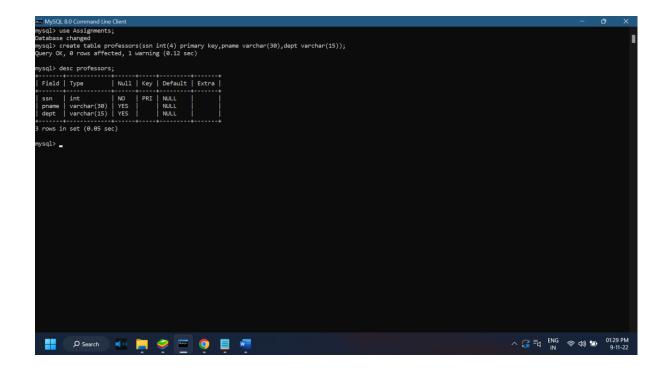
A university DB contains information about professors (identified by SIN) and courses (identified by course ID). Professors teach courses; each of the following situations concerns the Teaches relationship set.

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.

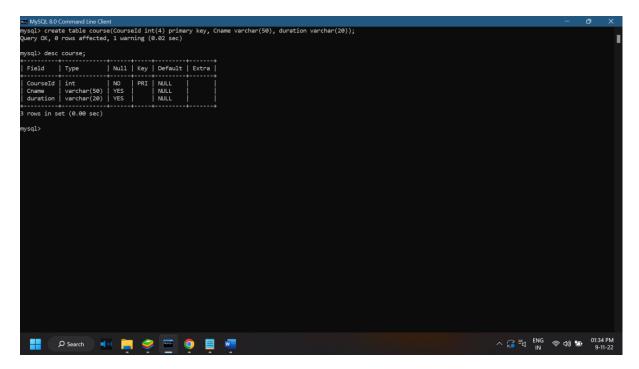
1 professors table

Create table professors(ssn int(4) primary key,pname varchar(30),dept varchar(15));



2 course table.

create table course(Courseld int(4) primary key, Cname varchar(50), duration varchar(20));



3 table teach

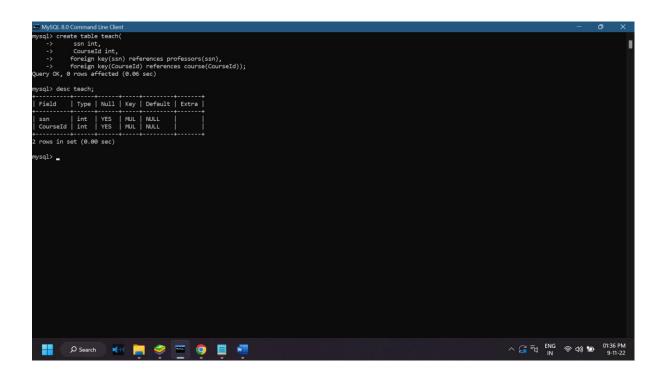
create table teach(

ssn int,

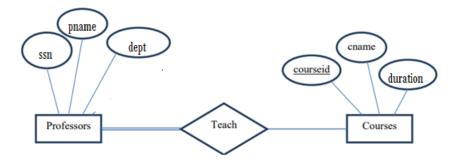
Courseld int,

foreign key(ssn) references professors(ssn),

foreign key(Courseld) references course(Courseld));



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.

