## Generate E-R Model

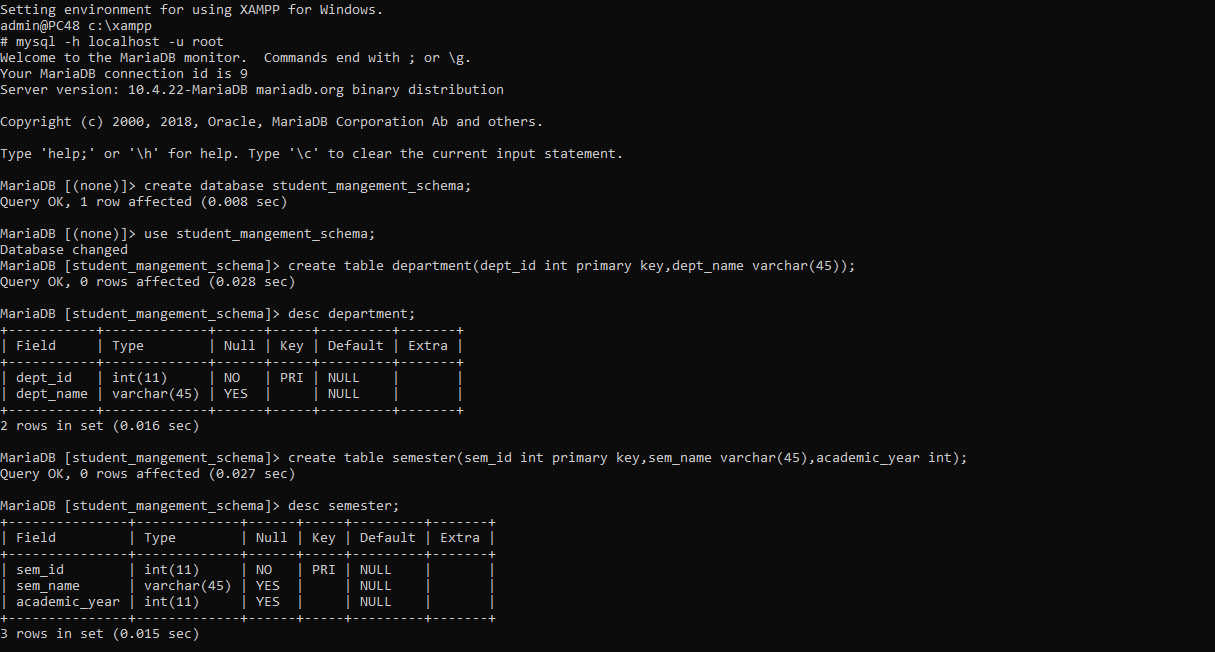
create database student\_mangement\_schema;

use student\_mangement\_schema;

create table department(dept\_id int primary key,dept\_name varchar(45));

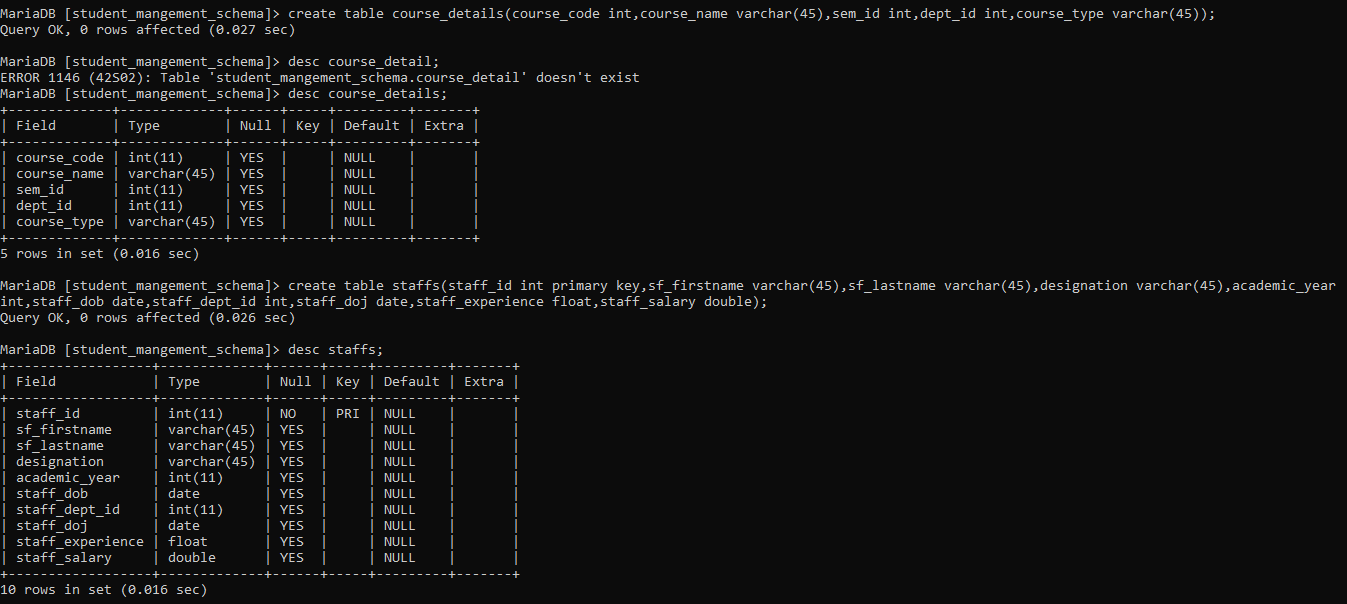
create table semester(sem\_id int primary key,sem\_name varchar(45),academic\_year int);

desc semester;



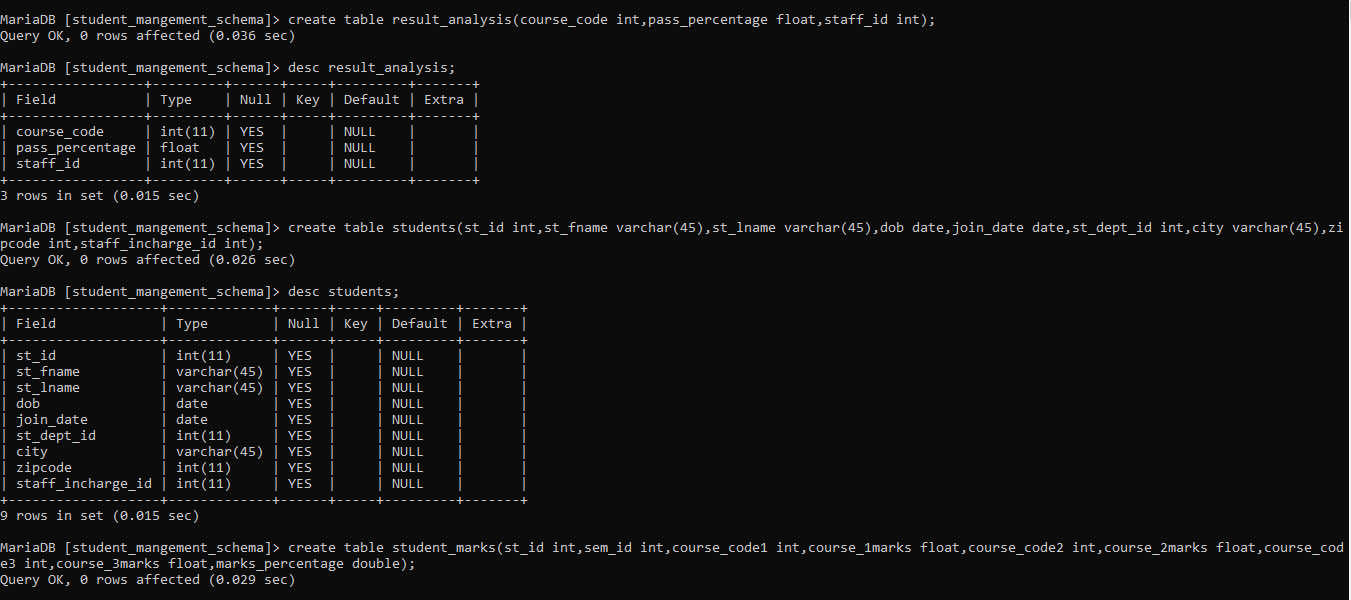
create table course\_details(course\_code int,course\_name varchar(45),sem\_id int,dept\_id int,course\_type varchar(45));

create table staffs(staff\_id int primary key,sf\_firstname varchar(45),sf\_lastname varchar(45),designation varchar(45),academic\_year int,staff\_dob date,staff\_dept\_id int,staff\_doj date,staff\_experience float,staff\_salary double);

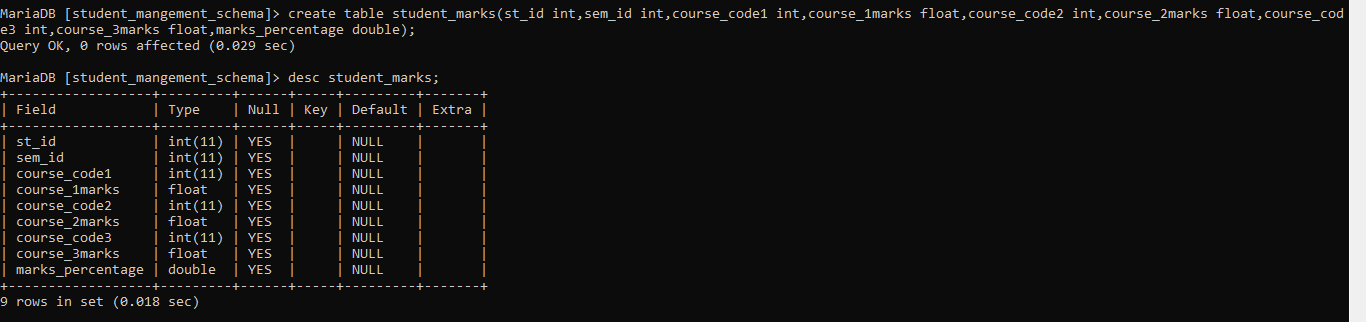


create table result\_analysis(course\_code int,pass\_percentage float,staff\_id int);

create table students(st\_id int,st\_fname varchar(45),st\_lname varchar(45),dob date,join\_date date,st\_dept\_id int,city varchar(45),zipcode int,staff\_incharge\_id int);



create table student\_marks(st\_id int,sem\_id int,course\_code1 int,course\_1marks float,course\_code2 int,course\_2marks float,course\_code3 int,course\_3marks float,marks\_percentage double);



1. **Insert records**

Table-Department,semester

insert into department values('1', 'CSE'),('2', 'ME'),('3', 'EEE');

insert into semester VALUES ('1','CSE'),('2','ME'),('3','EEE');

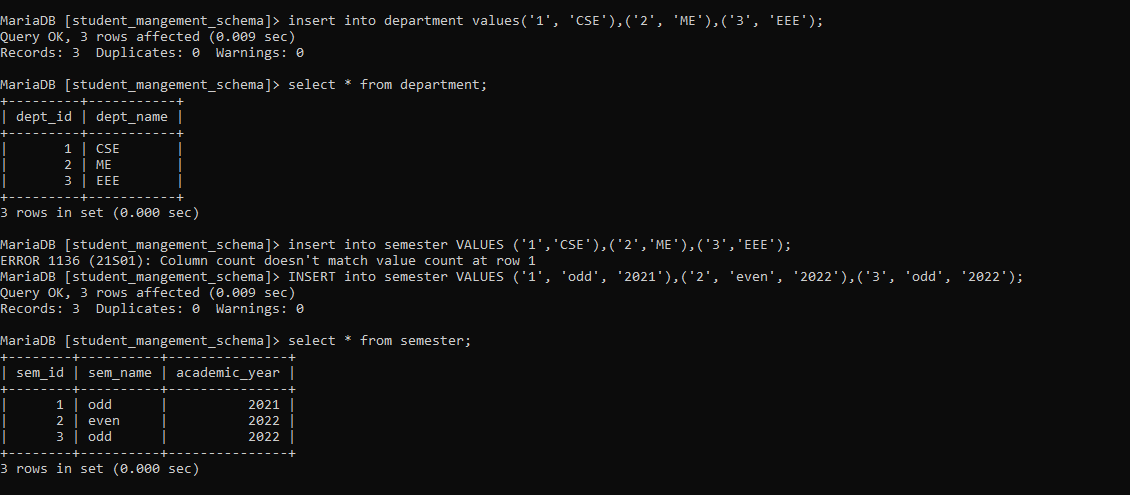


Table-CourseDetails,staffs

INSERT INTO course\_details VALUES ('101', 'JAVA', '1', '1', 'Core'),('102', 'CadLabs', '2', '2', 'Regular'),('103', 'DSA', '2', '3', 'Elective');

INSERT INTO staffs VALUES ('1', 'Ankush ', 'Gaba', 'Associate ', '2021', '1999-08-08', '1', '2021-09-12', '3', '10000'),('2', 'Reena', 'Dhingra', 'Professor', '2018', '1998-07-23', '3', '2022-04-23', '5', '150000'),('3', 'Ram', 'Singh', 'Director', '2019', '1975-02-21', '2', '2015-07-22', '12', '250000');

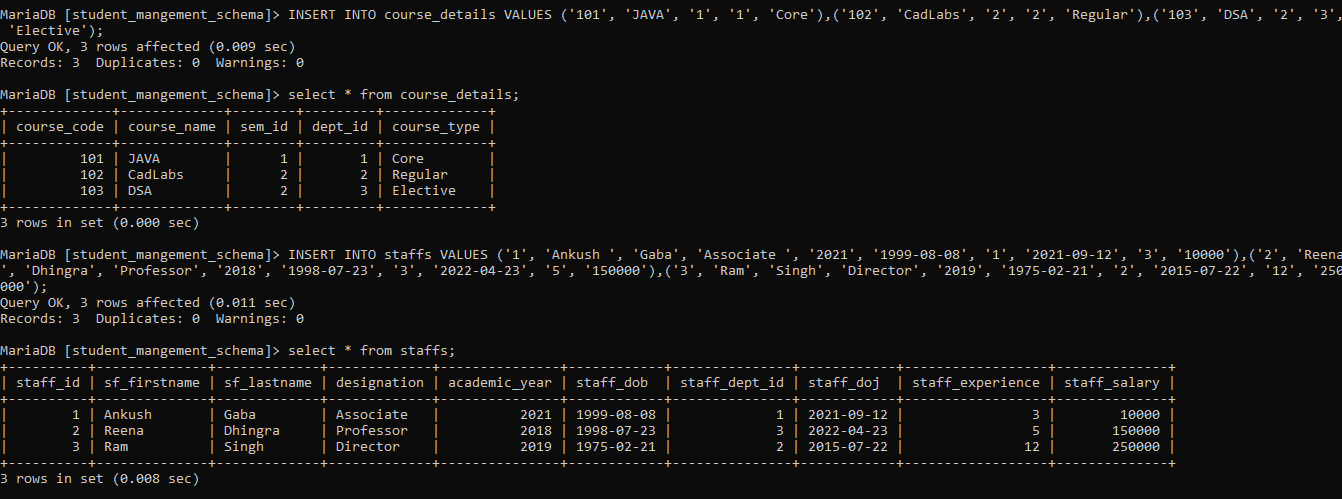


Table-Result\_analysis

INSERT INTO result\_analysis VALUES ('101', '33', '1'),('102', '34', '2');,('103', '35', '3');

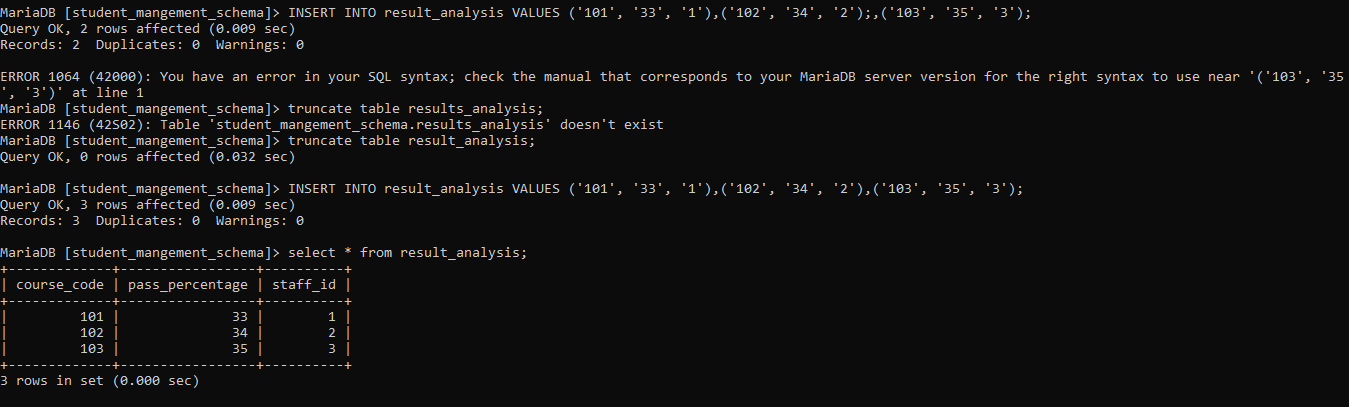
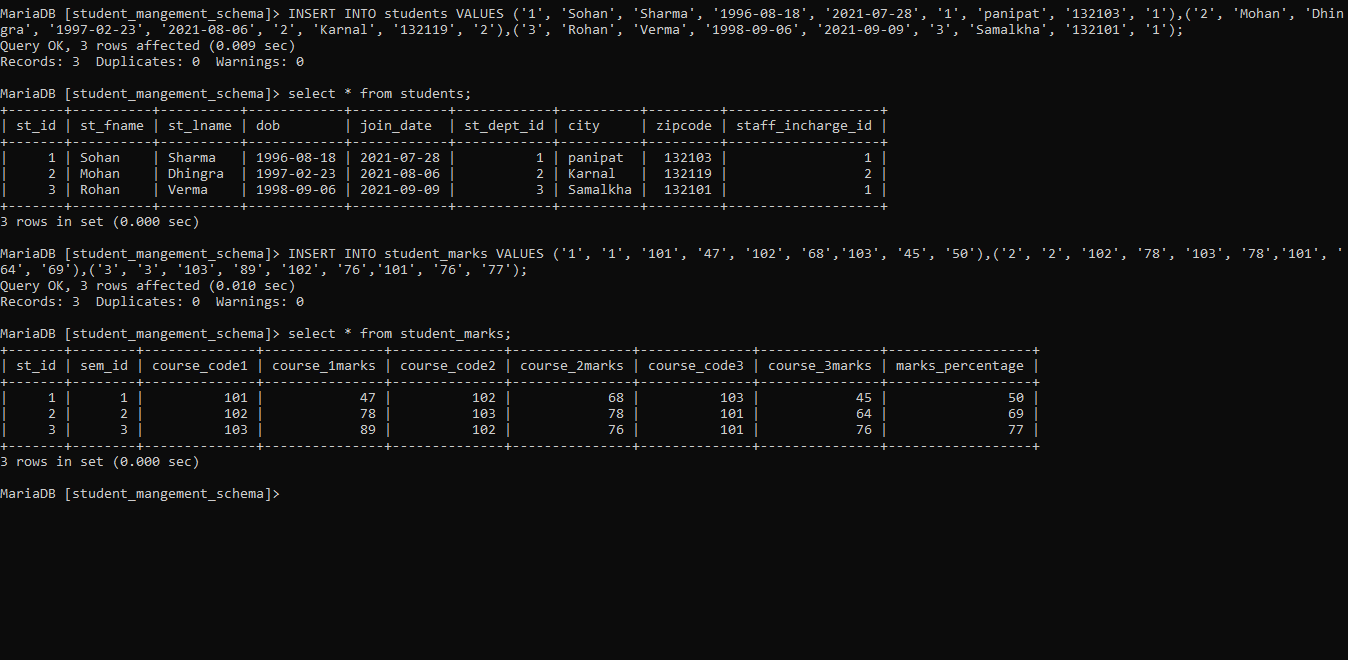


Table-Students,student\_marks

INSERT INTO students VALUES ('1', 'Sohan', 'Sharma', '1996-08-18', '2021-07-28', '1', 'panipat', '132103', '1'),('2', 'Mohan', 'Dhingra', '1997-02-23', '2021-08-06', '2', 'Karnal', '132119', '2'),('3', 'Rohan', 'Verma', '1998-09-06', '2021-09-09', '3', 'Samalkha', '132101', '1');

INSERT INTO student\_marks VALUES ('1', '1', '101', '47', '102', '68','103', '45', '50'),('2', '2', '102', '78', '103', '78','101', '64', '69'),('3', '3', '103', '89', '102', '76','101', '76', '77');

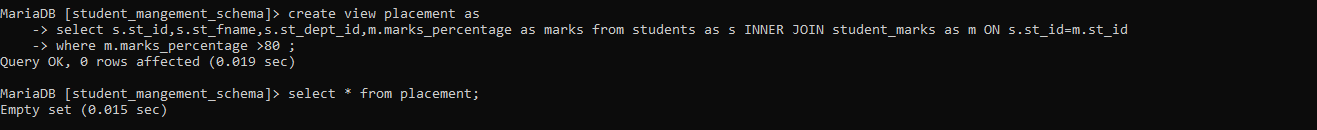


1. **Create view vw\_placement with appropriate constraints data type, marks colum should only accept if the marks>80**

create view placement as

-> select s.st\_id,s.st\_fname,s.st\_dept\_id,m.marks\_percentage as marks from students as s INNER JOIN student\_marks as m ON s.st\_id=m.st\_id

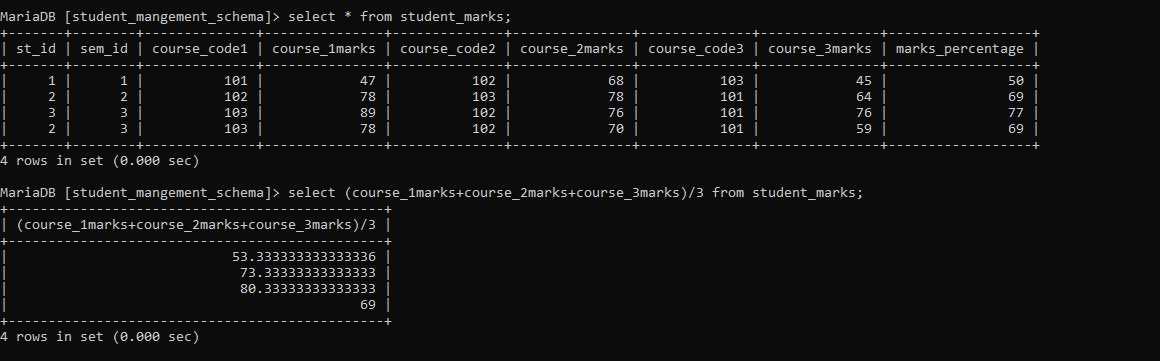
-> where m.marks\_percentage >80 ;



1. **Caluclate the marks\_percentage in student\_marks and update it respectively**

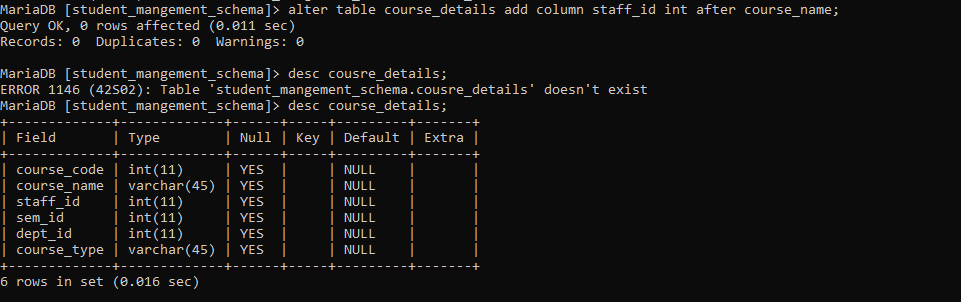
INSERT INTO student\_marks VALUES ('2', '3', '103', '78', '102', '70', '101', '59');

select (course\_1marks+course\_2marks+course\_3marks)/3 from student\_marks;



1. **Add new Staff\_id in course\_details and insert value respectively**

alter table course\_details add column staff\_id int after course\_name;



INSERT INTO course\_details(`course\_code`, `course\_name`,`sem\_id`, `dept\_id`) VALUES ('104', 'English Speaking', '2', '3');

