IMS Lab 2

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**Q1. Create a database named as Bennett University**

create database BennettUniversity;

use BennettUniversity;

**Q2. Create three tables named as courses, instructors, students.**

create table courses(

Course\_code varchar(10),

Course\_title varchar(10),

Credits int,

Semester int,

Instructor\_id int);

insert into courses

values("CS302","OS",3,3,102);

insert into courses

values("CS101","Physics",3,1,103);

insert into courses

values("CS303","Java",3,3,104);

insert into courses

values("CS505","DMS",4,5,105);

insert into courses

values("CS701","Cloud Comp",3,7,106);

insert into courses

values("EC303","DLD",2,5,107);

insert into courses

values("MBA501","Economics",3,5,108);

create table instructors(

instructor\_id int,

instructor\_name varchar(50),

department varchar(50));

insert into instructors

values(101,"Ashish","CSE");

insert into instructors

values(102,"Shivam","CSE");

insert into instructors

values(103,"Ravi","ME");

insert into instructors

values(104,"Sujit","CSE");

insert into instructors

values(105,"Alka","CSE");

insert into instructors

values(106,"Suman","CSE");

insert into instructors

values(107,"Mukund","EC");

insert into instructors

values(108,"Rohit","MBA");

create table students(

registration\_id varchar(50),

s\_name varchar(50),

semester int,

course\_code varchar(20),

age int,

instructor\_id int);

insert into students

values("SCS012","Arjun",3,"CS301",17,101);

insert into students

values("SCS013","Anamika",3,"CS301",19,101);

insert into students

values("SCS014","Diya",1,"CS101",19,103);

insert into students

values("SCS015","Abhishek",3,"CS303",17,104);

insert into students

values("SCS090","Shiva",3,"CS303",16,104);

insert into students

values("SCS071","Rahul",5,"CS505",21,105);

insert into students

values("SCS043","Rupam",3,"EC303",22,107);

insert into students

values("SCS017","Hina",3,"EC303",23,107);

insert into students

values("SCS022","Alam",5,"MBA501",21,108);

insert into students

values("SCS056","Satya",7,"CS701",23,106);

**Q3. Display all columns of the table courses**

select \* from courses;

**Q4. Display all students who are in semester 3.**

select \* from courses

where semester=3;

**Q5. Find all records in the instructor table with null values in name column.**

select \* from instructors

where instructor\_name = null;

**Q6. Find students in the 3 rd semester and age above 18.**

select \* from students

where semester=3 and age>18;

**Q7. Find all the instructor whose department is either CSE or MBA.**

select \* from instructors

where department="CSE" or "MBA";

**Q8. Add a column name as blood group in student table.**

alter table students

add bloodgroup varchar(5);

**Q9. Delete the recently added column in the student table**

alter table students

drop column bloodgroup;

**Q10. Change datatype of any column.**

alter table courses

modify column semester varchar(1);

**Q11. Change the column name of any table**

alter table students

change s\_name student\_name varchar(100);

**Q12. Delete the students whose age is >30.**

delete from students

where age>=30;

**Q13. Change the age of shiva to 17.**

update students

set age=17

where student\_name = "Shiva";