**Roll No:**

**Student Name:**

**Program and Output:**

In Mysql

Step 1 : create required tables

Use database name

create table Department(dept\_no int,dept\_name varchar(15),bldg\_name varchar(15),unique(dept\_name));

desc Department;

Add three records in table

Insert into Department (dept\_no,dept\_name,bldg\_name) values (1,’COMP’,’B1’);

Insert into Department (dept\_no,dept\_name,bldg\_name) values (2,’ENTC’,’B2’);

Insert into Department (dept\_no,dept\_name,bldg\_name) values (3,’IT’,’B3’);

create table instructor(ins\_id int,ins\_name varchar(15) not null,dept\_no int,salary int,mob\_no int,primary key(ins\_id));

desc instructor;

Add three records in table

Insert into instructor (ins\_id ,ins\_name ,dept\_no ,salary ,mob\_no) values (11,’Kiran’,1,20000,98);

Insert into instructor (ins\_id ,ins\_name ,dept\_no ,salary ,mob\_no) values (12,’Rohan’,2,20000,987654321);

Insert into instructor (ins\_id ,ins\_name ,dept\_no ,salary ,mob\_no) values (13,’Ram’,3,20000,987654222);

create table course(course\_id int,title varchar(15),dept\_no int,credits int,primary

key(course\_id));

desc course;

Add three records in table

Insert into course (course\_id ,title,dept\_no ,credits ) values (111,’COMP’,1,10);

Insert into course (course\_id ,title,dept\_no ,credits ) values (222,’ENTC’,2,10);

Insert into course (course\_id ,title,dept\_no ,credits ) values (333,’IT’,3,10);

create table teachers(teacher\_id int,course\_id int,semester int,year year,foreign key

(teacher\_id) references instructor(ins\_id),foreign key (course\_id) references

course(course\_id));

desc teachers;

**Quieries :**

**1)Add the primary key in department table.**

alter table Department add primary key(dept\_no);

desc Department;

**2 Add the foreign key in instructor table.**

alter table instructor add foreign key(dept\_no) references Department(dept\_no);

desc instructor;

**3 Modify the table department by adding a column budget.**

alter table Department add column budget int;

select \* from Department;

**4 Create unique index on mobile number of instructor table.**

create unique index sr on instructor(mob\_no);

desc instructor;

**5 Create a view of instructor relation except the salary field.**

create view inst\_view as select ins\_id,ins\_name,dept\_no,mob\_no from instructor;

select \* from inst\_view;

**6 Insert record into instructor table using newly created viewname.**

insert into Department values(4,"Elect","D",null);

select \* from Department;

select \* from inst\_view;

insert into inst\_view values(4,"D",4,12000);

select \* from inst\_view;

**7 Update the department number of particular instructor using update view.**

update inst\_view set dept\_no=2 where ins\_id=4;

select \* from inst\_view;

**8 Delete record of particular instructor from instructor table using newly created**

**viewname.**

delete from inst\_view where ins\_id=4;

**9 Delete the last view.**

drop view inst\_view;

select \* from inst\_view;

**10 Remove the Budget from department table.**

alter table Department drop budget;

select \* from Department;

**11 Increase the size of the title field of course relation.**

alter table course modify title varchar(20);

desc course;

**12 Create a view by showing a instructor name with a department name and its**

**salary.**

create view newview1 as select ins\_name,dept\_name,salary from instructor,Department

where instructor.dept\_no=Department.dept\_no;

select \* from newview1;

**13 Update salary of particular instructor using update view.**

update newview1 set salary=11000 where ins\_name="C";

select \* from instructor;

**14 Delete the index from the instructor table.**

alter table instructor drop index sr;

desc instructor;

**15 Rename the course table to another table name.**

rename table course to coursetable;

desc coursetable;

**16 Create a view by showing a instructor name and title of course he teaches.**

create view newview2 as select ins\_name,title from instructor,coursetable where

instructor.dept\_no=coursetable.dept\_no;

select \* from newview2;

**17 Delete the key from the department table.**

alter table instructor drop foreign key instructor\_ibfk\_1;

alter table Department drop primary key;

desc instructor;

18 **create the table student having field student id,student**

**name,dept\_no,birth date. student id should be auto\_increment.**

**Dept\_no is foreign key.**

alter table Department add primary key(dept\_no);

create table Student(stud\_id int auto\_increment,stud\_name varchar(10),dept\_no

int,DOB date,foreign key(dept\_no) references Department(dept\_no),primary

key(stud\_id));

desc Student;

**19 Change the sequence of your auto increment field.**

select \* from Student;

alter table Student auto\_increment=5;

select \* from Student;

**20 Create the view of computer department teachers name who teaches**

**in 5th semester.**

create view new1 as select dept\_name,semester,ins\_name from

Department,teachers,instructor where teachers.semester=2 and

Department.dept\_name="comp" and instructor.ins\_id=teachers.teacher\_id and

instructor.dept\_no=Department.dept\_no;

select \* from new1;

Oracle SQL

**Sequence:**

Create table suppliers (supplier\_id int, supplier\_name varchar(20));

CREATE SEQUENCE supplier\_seq

MINVALUE 1

START WITH 1

INCREMENT BY 1

CACHE 2;

INSERT INTO suppliers (supplier\_id, supplier\_name) VALUES (supplier\_seq.NEXTVAL, 'Kraft Foods');

select \* from suppliers;

Synonym:

CREATE PUBLIC SYNONYM supp FOR suppliers;

SELECT \* FROM supp;

CREATE OR REPLACE PUBLIC SYNONYM supp FOR suppliers;

DROP PUBLIC SYNONYM supp;

Create table suppliers (supplier\_id int, supplier\_name varchar(20));