**1. Create following tables using given schema and insert appropriate data into these tables.**

**Student(StudID, Name, Address, Marks)**

**Employee( EmplyeeID, Name, Address, Salary, DateOfJoining ,Department)**

Weather(CityID, CityName, MinTemp, MaxTemp).

create database college;

use college;

create table student(id int,name varchar(30),address varchar(60),marks int);

insert into student values(1,"Ram","Pune",98,"A");

insert into student values(2,"Ramesh","Pune",88,"D");

insert into student values(3,"Rama","Pune",92,"D");

insert into student values(4,"Ramu","Pune",77,"B");

insert into student values(5,"Sai","Pune",34,"C");

select \* from student;

create table employee(id int,name varchar(40),address varchar(80),salary int,dateofjoining date,department varchar(30));

insert into employee values(1,"Aman","Pune",56780,"1986-11-11","CS");

insert into employee values(2,"Saloni","Delhi",99780,"2023-03-12","CS");

insert into employee values(3,"Anant","Pune",52780,"2003-11-11","ES");

insert into employee values(4,"Aarav","Mumbai",54580,"2022-12-15","IT");

insert into employee values(5,"Amisha","Patna",5678,"2020-02-15","ETC");

select \* from employee;

create table weather(cityid int,cityname varchar(40),mintemp int,maxtemp int);

insert into weather values(1,"Pune",12,23);

insert into weather values(2,"Mumbai",22,45);

insert into weather values(3,"Pune",18,32);

insert into weather values(4,"Nashik",24,43);

insert into weather values(5,"Pune",19,28);

select \* from weatherData;

**2. Alter Student and Employee table to add Not Null constraint on all columns.**

ALTER TABLE student MODIFY id int NOT NULL;

ALTER TABLE student MODIFY marks int NOT NULL;

ALTER TABLE student MODIFY name varchar(30) NOT NULL;

ALTER TABLE student MODIFY address varchar(60) NOT NULL;

ALTER TABLE employee MODIFY id int NOT NULL;

ALTER TABLE employee MODIFY salary int NOT NULL;

ALTER TABLE employee MODIFY name varchar(40) NOT NULL;

ALTER TABLE employee MODIFY address varchar(80) NOT NULL;

ALTER TABLE employee MODIFY department varchar(30) NOT NULL;

**3. Alter the Student table to add Primary key constraint on StudID column.**

ALTER TABLE student MODIFY id int primary key;

**4. Create a view JoiningInfo on Employee table displaying Employee ID, Name and**

**DateOfJoining of employees.**

CREATE VIEW JoiningInfo AS

SELECT id, name, dateofjoining

FROM employee;

**5. Crete index on primary key columns of all the tables.**

CREATE INDEX idx\_id

ON student (id);

CREATE INDEX indx\_id

ON employee (id);

CREATE INDEX index\_id

ON weather (cityid);

**6. Crate view MarksInfo on Student table displaying StuID and Marks.**

CREATE VIEW MarksInfo AS

SELECT id,marks

FROM student;

**7. Change the name of Weather table to WeatherData.**

rename table weather to weatherData;

**8. Drop column CityName from WeatherData table.**

ALTER table weatherData DROP column cityname;

**9. Add column Grade to Student table.**

ALTER TABLE student ADD Grade varchar(2);

**10. Crate a view “DistinctionStudents” on student table displaying data of students having**

**Distinction as Grade.**

CREATE VIEW DistinctionStudents AS

SELECT id, Grade

FROM student

WHERE Grade="D";

**12. Create a synonym ‘Emp\_Info’ for Employee table.**

SELECT \* FROM employee AS Emp\_Info;