CREATE TABLE EmployeeInfo\_A (

EmpId INT PRIMARY KEY,

EmpFname VARCHAR(255),

EmpLname VARCHAR(255),

Department VARCHAR(255),

Project VARCHAR(255),

Address VARCHAR(255),

DOB DATE,

Gender VARCHAR(255)

);

INSERT INTO EmployeeInfo\_A (EmpId, EmpFname, EmpLname, Department, Project, Address, DOB, Gender)

VALUES (1, 'Suraj', 'Patil', 'Admin', 'P1', 'Delhi', TO\_DATE('02-12-1979', 'DD-MM-YYYY'), 'Male');

INSERT INTO EmployeeInfo\_A (EmpId, EmpFname, EmpLname, Department, Project, Address, DOB, Gender)

VALUES (2, 'Sushant', 'Patil', 'Admin', 'P2', 'Mumbia', TO\_DATE('10-10-1986', 'DD-MM-YYYY'), 'Male');

INSERT INTO EmployeeInfo\_A (EmpId, EmpFname, EmpLname, Department, Project, Address, DOB, Gender)

VALUES (3, 'Sonia', 'Banerjee', 'HR', 'P3', 'Pune', TO\_DATE('05-06-1983', 'DD-MM-YYYY'), 'Female');

INSERT INTO EmployeeInfo\_A (EmpId, EmpFname, EmpLname, Department, Project, Address, DOB, Gender)

VALUES (4, 'Ankita', 'Kapoor', 'HR', 'P4', 'Chennai', TO\_DATE('28-11-1983', 'DD-MM-YYYY'), 'Female');

INSERT INTO EmployeeInfo\_A (EmpId, EmpFname, EmpLname, Department, Project, Address, DOB, Gender)

VALUES (5, 'Swati', 'Garg', 'HR', 'P5', 'Delhi', TO\_DATE('06-04-1991', 'DD-MM-YYYY'), 'Female');

CREATE TABLE EmployeePosition\_A (

EmpId INT PRIMARY KEY,

EmpPosition VARCHAR(255),

DateOfJoining DATE,

Salary INT,

CONSTRAINT EmployeePosition FOREIGN KEY (EmpId) REFERENCES EmployeeInfo(EmpId)

);

insert into EmployeePosition\_A Values(1,'Manager',TO\_DATE('03-04-2020','DD-MM-YYYY'),500000);

insert into EmployeePosition\_A Values('2','Manager',TO\_DATE('03-04-2020','DD-MM-YYYY'),500000);

insert into EmployeePosition\_A Values('3','Manager',TO\_DATE('02-04-2020','DD-MM-YYYY'),150000);

insert into EmployeePosition\_A Values('4','Officer',TO\_DATE('02-04-2020','DD-MM-YYYY'),90000);

insert into EmployeePosition\_A Values('5','Manager',TO\_DATE('03-04-2020','DD-MM-YYYY'),300000);

create table EmpPerform(

Emp\_id int Primary key,

Bones int

);

insert into EmpPerform values(1,56600);

insert into EmpPerform values(2,66600);

insert into EmpPerform values(3,60600);

insert into EmpPerform values(4,55600);

insert into EmpPerform values(5,45600);

insert into EmpPerform values(6,45000);

insert into EmpPerform values(7,40000);

insert into EmpPerform values(8,40000);

1. **Write a query to fetch the EmpFname from the EmployeeInfo table in upper case and use the ALIAS name as EmpName.**

SELECT UPPER(EmpFname) AS EmpName FROM EmployeeInfo;

1. **Write a program of Database connectivity and insert records**
2. **Write q query to find all the employees whose salary is between 50000 to 100000.**

SELECT \* FROM EmployeePosition WHERE Salary BETWEEN '50000' AND '100000';

1. **Write a query to find the names of employees that begin with ‘S’**

SELECT \* FROM EmployeeInfo WHERE EmpFname LIKE 'S%';

1. **Write a program of Database connectivity and update records**
2. **Write a query to fetch all the records from the EmployeeInfo table ordered by**

SELECT \*

FROM EmployeeInfo\_A

ORDER BY empid DESC;

1. **EmpLname in descending order and Department in the ascending order.**

|  |  |
| --- | --- |
| 1 | SELECT \* FROM EmployeeInfo ORDER BY EmpFname desc, Department asc; |

1. **Write a query to fetch details of all employees excluding the employees with first names, “Sanjay” and “Sonia” from the EmployeeInfo table.**

|  |  |
| --- | --- |
| 1. 1 | SELECT \* FROM EmployeeInfo WHERE EmpFname NOT IN ('Sanjay','Sonia'); |

1. **Draw an E-R Diagram of Hospital organization.**
2. **Write a program of Database connectivity and display records**
3. **Use DDL Queries to create, alter (add, modify, rename, drop) & drop Tables.**

SELECT \*FROM TABLE\_NAME;

Create table Person(

person\_id int primary key,

person\_name varchar(100),

address varchar(100));

ALTER TABLE table\_name

ADD column\_name datatype;

Update Person

Set address = 'Gadhinglaj'

Where person\_Roll\_NO = 7;

1. **Use DML Queries to insert, delete, update & display records of the tables.**

# Delete Person

# Where Person\_roll\_no = '6';

1. **Create table with integrity constraints like primary key, check, not null and unique.**
2. **Write a program of Database connectivity and delete records**
3. **Display the records using Aggregate functions like min, max, avg, sum & count. Also use group by, having clauses.**

Select count(Emp\_id)

from EmpPerform;

Select Sum(Bones)

from EmpPerform;

Select Avg(bones)

from EmpPerform;

Select Max(bones)

from EmpPerform;

Select Min(bones)

from EmpPerform;

Select EmpPosition, AVG(salary) as avg\_salary

From EmployeePosition\_A

GROUP BY EmpPosition

HAVING AVG(salary)>50000;

1. **Display the results of Join Operations like inner join, left outer join, right outer join and full outer join.**

SELECT \* FROM EmployeePosition\_A

INNER JOIN EmpPerform

ON EmpPerform.Emp\_id=EmployeePosition\_A.Empid;

SELECT

EmployeePosition\_A.Empid,EmployeePosition\_A.EmpPosition,EmpPerform.bones

from EmployeePosition\_A

LEFT JOIN EmpPerform

ON EmpPerform.Emp\_id=EmployeePosition\_A.Empid;

SELECT EmployeePosition\_A.Empid,EmployeePosition\_A.EmpPosition,EmpPerform.bones

from EmployeePosition\_A

RIGHT JOIN EmpPerform

ON EmpPerform.Emp\_id=EmployeePosition\_A.Empid;

SELECT EmployeePosition\_A.Empid,EmployeePosition\_A.EmpPosition,EmpPerform.bones

from EmployeePosition\_A

FULL OUTER JOIN EmpPerform

ON EmpPerform.Emp\_id=EmployeePosition\_A.Empid;

1. **Display the results of set operations like union, intersections & set difference.**

# SELECT \* FROM Civil\_student

# UNION

# SELECT \* FROM Cse\_student;

# SELECT Student\_id, Full\_name FROM Civil\_Student

# INTERSECT

# SELECT Student\_id, Full\_name FROM Cse\_Student;

# SELECT Student\_id,Batch

# FROM Civil\_Student

# MINUS

# SELECT Student\_id,Batch

# FROM Cse\_Student;

1. **Draw an E-R Diagram of E-Commerce Website.**
2. **Write a query to fetch details of all employees with first names, “Sanjay” and “Sonia” from the EmployeeInfo table.**

SELECT \*

FROM EmployeeInfo\_A

WHERE EmpFname IN ('Sanjay', 'Sonia');

1. **Display the all records in descending order, where country is "India" AND city is "kolhapur"**

SELECT \*

FROM EmployeeInfo\_A

WHERE country = 'India' AND city = 'Kolhapur'

ORDER BY Empid DESC;

1. **Display the all records in acceding order, where country is "India" OR “Jarman”**

SELECT \*

FROM EmployeeInfo

WHERE country IN ('India', 'Jarman')

ORDER BY record\_id ASC;