## Assignment 1

Q1) **Create the following tables:**

SQL:

CREATE TABLE EMPLOYEE ( EMP\_CODE char(16) primary key,EMP\_NAME char(20),DEPT\_CODE char(16), DESIG\_CODE char(16), SEX char(1), ADDRESS char (25),CITY char (20), STATE char (20), PIN char (6), BASIC decimal(9,2), JN\_DT Date );

CREATE TABLE DESIGNATION ( DESIG\_CODE char(16) primary key, DESIG\_DESC char(20));

CREATE TABLE DEPARTMENT (DEPT\_CODE char(16) primary key, DEPT\_NAME char(20));

Q2) **Display the structure of each table**

SQL: desc EMPLOYEE;

desc DESIGNATION; desc DEPARTMENT;



|  |  |  |
| --- | --- | --- |
| **Column**  DESIG\_CODE | **Null?**    NOT NULL | **Type**    CHAR(5) |
| DESIG\_DESE | - | CHAR(20) |

|  |  |  |
| --- | --- | --- |
| **Column Null? Type** EMP\_CODE NOT NULL CHAR(5) EMP\_NAME - CHAR(20)  DEPT\_CODE - CHAR(5)  DESIG\_CODE - CHAR(5)  SEX - CHAR(1)  ADDRESS - CHAR(25)  CITY - CHAR(20)  STATE - CHAR(20)  PIN - CHAR(6)  BASIC - NUMBER | | |
| JN\_DT | - | DATE |

Q3) **Insert few rows in each table.**



|  |  |  |
| --- | --- | --- |
| **Column**  DEPT\_CODE | **Null?**    NOT NULL | **Type**    CHAR(5) |
| DEPT\_NAME | - | CHAR(15) |

insert into DESIGNATION values ('D002','Executive')

insert into DESIGNATION values ('D001','Manager')

insert into DESIGNATION values ('D003','Officer')

insert into DESIGNATION values ('D004','Clerk')

insert into DESIGNATION values ('D005','Helper')

insert into DEPARTMENT values ('DP01','Personnel')

insert into DEPARTMENT values ('DP02','Production')

insert into DEPARTMENT values ('DP03','Purchase')

insert into DEPARTMENT values ('DP04','Finnance')

insert into DEPARTMENT values ('DP05','Research ')

insert into EMPLOYEE values ('E001','TAPAN','DP01', 'D001', 'M', 'BALARAMPUR','PURULIA','WEST BENGAL','723103',80000,

to\_date('21:01:2024','dd:mm:yyyy'));

insert into EMPLOYEE values ('E002','ROHIT','DP02', 'D002', 'M', 'ABC','PURULIA','WEST BENGAL','723102',70000, to\_date('21:01:2024','dd:mm:yyyy'));

insert into EMPLOYEE values ('E003','SUDIP',NULL, 'D002', 'M', 'ABC','PURULIA','WEST BENGAL','723102', NULL, to\_date('21:01:2024','dd:mm:yyyy'));

insert into EMPLOYEE values ('E004','AMIT','DP03', 'D003', 'M', 'ABC','PURULIA','WEST BENGAL','723102',0,to\_date('21:01:2024','dd:mm:yyyy'));

Q4) **In EMP table insert few rows without DEPT\_CODE and BASIC.**

insert into EMPLOYEE values ('E003','SUDIP',NULL, 'D002', 'M', 'ABC','PURULIA','WEST BENGAL','723102', NULL, to\_date('21:01:2024','dd:mm:yyyy'))

Q5) **Find the rows with unassigned DEPT\_CODE**

### SELECT \* FROM EMPLOYEE WHERE DEPT\_CODE IS NULL

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EMP\_COD**  **E** | **EMP\_NAM**  **E** | **DEPT\_COD**  **E** | **DESIG\_COD**  **E** | **SE**  **X** | **ADDRES**  **S** | **CITY** | **STATE** | **PIN** | **BASI**  **C** | **JN\_D**  **T** |
| E003 | SUDIP | - | D002 | M | ABC | PURULI | WEST | 72310 | - | 21- |
|  |  |  |  |  |  | A | BENGA | 2 |  | JAN- |
|  |  |  |  |  |  |  | L |  |  | 24 |

Q6) **Find the rows with BASIC unassigned**

### SELECT \* FROM EMPLOYEE WHERE BASIC IS NULL

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EMP\_COD**  **E** | **EMP\_NAM**  **E** | **DEPT\_COD**  **E** | **DESIG\_COD**  **E** | **SE**  **X** | **ADDRES**  **S** | **CITY** | **STATE** | **PIN** | **BASI**  **C** | **JN\_D**  **T** |
| E003 | SUDIP | - | D002 | M | ABC | PURULI | WEST | 72310 | - | 21- |
|  |  |  |  |  |  | A | BENGA | 2 |  | JAN- |
|  |  |  |  |  |  |  | L |  |  | 24 |

Q7) **Find the rows with basic = 0**

### SELECT \* FROM EMPLOYEE WHERE BASIC =0

Q8) **Find the average basic of the employees.**

SELECT AVG(BASIC) AS average\_basic FROM EMPLOYEE

26250

**AVERAGE\_BASIc**

Q9) **Replace the BASIC with 0 for the rows with unassigned Basic.**

### UPDATE EMPLOYEE SET BASIC = 0 WHERE BASIC IS NULL

Q10) **Again, find the average Basic. (Note the difference of result obtained in Q.8**

SELECT AVG(BASIC) AS average\_basic FROM EMPLOYEE

26250

**AVERAGE\_BASIc**

Q11) **Delete the rows with unassigned DEPT\_CODE.**

### DELETE FROM EMPLOYEE WHERE DEPT\_CODE IS NULL

Q12) **Say, Net pay of an employee= Basic+HRA+DA where HRA is 50% of the Basic &amp; DA is 40% of Basic. Show the employee name &amp; Net pay for all employees.**

### SELECT EMP\_NAME, 50/100 \* BASIC AS HRA, 40/100 \* BASIC AS DA, BASIC+(50/100 \* BASIC)+(40/100\* BASIC) AS NET\_PAY FROM EMPLOYEE

|  |  |  |  |
| --- | --- | --- | --- |
| **EMP\_NAME** | **HRA** | **DA** | **NET\_PAY** |
| TAPAN | 40000 | 32000 | 152000 |
| ROHIT | 35000 | 28000 | 133000 |
| AMIT | 0 | 0 | 0 |
| ABC | 0 | 0 | 0 |
| DEF | 0 | 0 | 0 |
| GHI | 0 | 0 | 0 |
| ANITA | 30000 | 24000 | 114000 |

Q13) **Show the EMP\_NAME &amp; BASIC in the ascending order of DEPT\_CODE. The employee name must appear in uppercase.**

SELECT UPPER(EMP\_NAME) AS EMPLOYEE\_NAME , BASIC FROM EMPLOYEE

ORDER BY DEPT\_CODE ASC

|  |  |
| --- | --- |
| **EMPLOYEE\_NAME** | **BASIC** |
| GHI | 0 |
| TAPAN | 80000 |
| ANITA | 60000 |
| ROHIT | 70000 |
| DEF | 0 |
| AMIT | 0 |
| ABC | 0 |

Q14) **Find the employees who have joined after 1 st January 2010.**

SELECT \*

FROM EMPLOYEE WHERE JN\_DT > TO\_DATE('2010-01-01', 'YYYY-MM-DD')

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EMP\_CO DE** | **EMP\_NA ME** | **DEPT\_CO DE** | **DESIG\_CO DE** | **SE X** | **ADDRESS** | **CITY** | **STATE** | **PIN** | **BASI C** | **JN\_D T** |
| E001 | TAPAN | DP01 | D001 | M | BALARAMP UR | PURUL IA | WEST BENG AL | 7231  03 | 80000 | 21- JAN- 24 |
| E002 | ROHIT | DP02 | D002 | M | ABC | PURUL IA | WEST BENG AL | 7231  02 | 70000 | 21- JAN- 24 |
| E004 | AMIT | DP03 | D003 | M | ABC | PURUL IA | WEST BENG  AL | 7231  02 | 0 | 21- JAN-  24 |
| E005 | ABC | DP03 | D004 | M | ABC\_D | PURUL IA | WEST  BENG AL | 7231  02 | 0 | 01-  JAN- 24 |
| E006 | DEF | DP02 | D005 | M | ABC | PURUL IA | WEST  BENG AL | 7231  02 | 0 | 02-  JAN- 24 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E007 | GHI | DP01 | D005 | M | ABC | PURUL IA | WEST BENG  AL | 7231  02 | 0 | 22- JAN-  24 |
| E008 | ANITA | DP01 | D005 | F | ABC | PURUL IA | WEST BENG AL | 7231  02 | 60000 | 23- JAN- 24 |

Q15) **Find, how many employees have joined in the month of January?**

SELECT COUNT(\*) FROM EMPLOYEE

WHERE TO\_CHAR(JN\_DT, 'MM') = '01'

7

**COUNT(\*)**

Q16) **Find the maximum &amp; minimum Basic.**

### SELECT MAX(BASIC) AS MAXIMUM, MIN(BASIC) AS MINIMUM FROM EMPLOYEE

|  |  |
| --- | --- |
| **MAXIMUM** | **MINIMUM** |
| 80000 | 0 |

Q17) **Find how many Female employees are there?**

SELECT COUNT(\*) FROM EMPLOYEE WHERE SEX = 'F'

1

**COUNT(\*)**

Q18) **Replace CITY with existing value converted into uppercase for all rows.**

### UPDATE EMPLOYEE SET CITY = UPPER(CITY)

Q19) **Find in how many different cities various employees are residing?**

SELECT COUNT(DISTINCT CITY) AS DISTINCT\_CITY FROM EMPLOYEE

1

**DISTINCT\_CITY**

Q20) **Display the employee information in the ascending order of DEPT\_CODE and with in a Department, it should be in the descending order of BASIC.**

SELECT \*

FROM EMPLOYEE

ORDER BY DEPT\_CODE ASC, BASIC DESC

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **EMP\_CO**  **DE** | **EMP\_NA**  **ME** | **DEPT\_CO**  **DE** | **DESIG\_CO**  **DE** | **SE**  **X** | **ADDRESS** | **CITY** | **STATE** | **PIN** | **BASI**  **C** | **JN\_D**  **T** |
| E001 | TAPAN | DP01 | D001 | M | BALARAMP UR | PURULI A | WEST BENGA  L | 72310  3 | 8000  0 | 21- JAN-  24 |

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| E008 | ANITA | DP01 | D005 | F | ABC | PURULI A | WEST BENGA  L | 72310  2 | 6000  0 | 23- JAN-  24 |
| E007 | GHI | DP01 | D005 | M | ABC | PURULI A | WEST BENGA  L | 72310  2 | 0 | 22- JAN-  24 |
| E002 | ROHIT | DP02 | D002 | M | ABC | PURULI A | WEST  BENGA L | 72310  2 | 7000  0 | 21-  JAN- 24 |
| E006 | DEF | DP02 | D005 | M | ABC | PURULI A | WEST BENGA  L | 72310  2 | 0 | 02- JAN-  24 |
| E004 | AMIT | DP03 | D003 | M | ABC | PURULI A | WEST BENGA  L | 72310  2 | 0 | 21- JAN-  24 |
| E005 | ABC | DP03 | D004 | M | ABC\_D | PURULI A | WEST BENGA  L | 72310  2 | 0 | 01- JAN-  24 |

# Assignment 2

Q1) **From the EMP table show the minimum, maximum and average basic for each department (show dept. Code).**

select DEPT\_CODE, MIN(BASIC) as Minimum, MAX(BASIC) as Maximum, AVG(BASIC) as Average from employee group by DEPT\_CODE

|  |  |  |  |
| --- | --- | --- | --- |
| **DEPT\_CODE** | **MINIMUM** | **MAXIMUM** | **AVERAGE** |
| DP01 | 0 | 80000 | 46666.6666666666666666666666666666666667 |
| DP03 | 0 | 0 | 0 |
| DP02 | 0 | 70000 | 35000 |

Q2) **Find the number of female employees in each department (show dept. Code).**

SELECT DEPT\_CODE, COUNT(\*) from employee where SEX='F' group by DEPT\_CODE

|  |  |
| --- | --- |
| **DEPT\_CODE** | **COUNT(\*)** |
| DP01 | 1 |

Q3) **Find the city wise no. of employees for each department (show dept. Code).** SELECT count(\*) as No\_Of\_Employee, CITY , DEPT\_CODE from employee GROUP BY CITY,DEPT\_CODE

|  |  |  |
| --- | --- | --- |
| **NO\_OF\_EMPLOYEE** | **CITY** | **DEPT\_CODE** |
| 2 | PURULIA | DP03 |
| 2 | PURULIA | DP02 |
| 3 | PURULIA | DP01 |

Q4) **Show the designation wise no of employees who have joined in the year 2000 in each department. The listing should appear in the ascending order of no. of employees.**

SELECT count(\*) as No\_Of\_Employee, DESIG\_CODE from employee where EXTRACT(YEAR FROM JN\_DT)=2000 group by DESIG\_CODE order by No\_Of\_Employee

Q5) **Find the department code wise total basic of male employees only for the departments for which such total is more than 50,000 and the listing should appear in the descending order of total basic.**

SELECT DEPT\_CODE, SUM(BASIC) as Total\_Basic from employee where SEX='M' group by DEPT\_CODE having SUM(BASIC) >50000 order by Total\_basic DESC

|  |  |
| --- | --- |
| **DEPT\_CODE** | **TOTAL\_BASIC** |
| DP01 | 80000 |
| DP02 | 70000 |

Q6) **Show the employee name, Designation description and basic for all employees.** select EMP\_NAME,DESIG\_DESE,Basic from Employee,designation where Employee.DESIG\_CODE=Designation.DESIG\_CODE

|  |  |  |
| --- | --- | --- |
| **EMP\_NAME** | **DESIG\_DESE** | **BASIC** |
| TAPAN | Manager | 80000 |
| ROHIT | Executive | 70000 |
| AMIT | Officer | 0 |
| ABC | Clerk | 0 |
| DEF | Helper | 0 |
| GHI | Helper | 0 |
| ANITA | Helper | 6000 |

Q7) **Show the employee name, Designation description, Department Name &amp; Basic for all employees.**

select EMP\_NAME,DESIG\_DESE,Basic,DEPT\_NAME from employee,designation,department where Employee.DESIG\_CODE=Designation.DESIG\_CODE AND Employee.DEPT\_CODE = Department.DEPT\_CODE

|  |  |  |  |
| --- | --- | --- | --- |
| **EMP\_NAME** | **DESIG\_DESE** | **BASIC** | **DEPT\_NAME** |
| TAPAN | Manager | 80000 | Personnel |
| GHI | Helper | 0 | Personnel |
| ANITA | Helper | 60000 | Personnel |
| ROHIT | Executive | 70000 | Production |
| DEF | Helper | 0 | Production |
| AMIT | Officer | 0 | Purchase |
| ABC | Clerk | 0 | Purchase |

Q8) **Find the department Codes in which no employee works.**

SELECT Department.DEPT\_CODE,

count(Employee.DEPT\_CODE) FROM Department

LEFT OUTER JOIN Employee ON Employee.DEPT\_CODE=Department.DEPT\_CODE GROUP BY Department.DEPT\_CODE

HAVING count(Employee.EMP\_CODE) = 0

|  |  |
| --- | --- |
| **DEPT\_CODE** | **COUNT(EMPLOYEE.DEPT\_CODE)** |
| DP05 | 0 |
| DP04 | 0 |

Q9) **Find the department names where at least one employee works.**

SELECT Department.DEPT\_NAME FROM Department LEFT OUTER JOIN Employee ON Employee.DEPT\_CODE=Department.DEPT\_CODE GROUP BY Department.DEPT\_NAME

HAVING count(Employee.EMP\_CODE)>=1

|  |
| --- |
| **DEPT\_NAME** |
| Personnel |
| Production |
| Purchase |

Q10) **Find the department names where at least 10 employees work.**

SELECT Department.DEPT\_NAME FROM Department

LEFT OUTER JOIN Employee ON Employee.DEPT\_CODE=Department.DEPT\_CODE GROUP BY Department.DEPT\_NAME

HAVING count(Employee.EMP\_CODE)>=10

Q11) **Find the department code in which employee with highest Basic works.**

Select DEPT\_CODE from EMPLOYEE where Basic=(Select MAX(BASIC) from Employee)

DP01

**DEPT\_CODE**

Q12) **Find the Designation description of the employee with highest basic.**

Select DESIG\_DESE from Designation where DESIG\_CODE = (Select DESIG\_CODE from EMPLOYEE where Basic=(Select MAX(BASIC) from Employee))

Manager

**DESIG\_DESE**

Q13) **Find the no. of managers in each department.**

SELECT COUNT(E.EMP\_CODE) FROM EMPLOYEE E, DESIGNATION DES WHERE E.DESIG\_CODE = DES.DESIG\_CODE AND DES.DESIG\_DESC="MANAGER" GROUP BY E.DEPT\_CODE ;

Q14) **Find the maximum basic from EMP table without using MAX().**

select DEPT\_CODE, Sum(Basic) from employee where ROWNUM=1 group by DEPT\_CODE

|  |  |
| --- | --- |
| **DEPT\_CODE** | **SUM(BASIC)** |
| DP01 | 80000 |

Q15) **Find the minimum basic from EMP table without using MIN().**

SELECT BASIC MAX\_BASIC FROM EMPLOYEE ORDER BY BASIC LIMIT 1;

Q16) **Find the name of the department with highest total basic. Do the same for highest average basic and maximum no. of employee.**

SQL: SELECT E.BASIC, DEP.DEPT\_NAME FROM EMPLOYEE E, DEPARTMENT DEP WHERE E.DEPT\_CODE = DEP.DEPT\_CODE ORDER BY E.BASIC DESC LIMIT 1;

+ + +

| BASIC | DEPT\_NAME |

+ + +

| 36750.00 | PRODUCTION |

+ + +

SQL: SELECT AVG(E.BASIC) AVG\_BASIC, DEP.DEPT\_NAME FROM EMPLOYEE E, DEPARTMENT DEP WHERE E.DEPT\_CODE = DEP.DEPT\_CODE GROUP BY DEP.DEPT\_CODE ORDER BY AVG\_BASIC DESC LIMIT 1;

+ + +

| BASIC | DEPT\_NAME |

+ + +

| 36750.00000000| PRODUCTION |

+ + +

SQL: SELECT COUNT(E.EMP\_CODE) COUNT\_EMPLOYEE, DEP.DEPT\_NAME FROM EMPLOYEE E, DEPARTMENT DEP WHERE E.DEPT\_CODE = DEP.DEPT\_CODE GROUP BY DEP.DEPT\_CODE ORDER BY COUNT\_EMPLOYEE DESC LIMIT 1;

+ + +

| COUNT\_EMPLOYEE | DEPT\_NAME |

+ + +

| 1 | PURCHASE |

+ + +

Q17) **Insert same rows into EMP table with designation code not existing in DESIGNATION table.**

INSERT INTO EMPLOYEE VALUES('EMP011', 'Jaidip Sarkar', 'DEPT004', 'DESIG008', 'M',

'Nowhere, Bullygaunje', 'Kolkata', 'West Bengal', '325801', 116000.0, "2003-02-

19");

INSERT INTO EMPLOYEE VALUES('EMP012', 'Joydipto Biswas, 'DEPT001', 'DESIG010', 'F',

'Anywhere, Garia', 'Kolkata', 'West Bengal', '700112', 80000.0, "1999-10-17");

Q18) **Delete the rows from EMP table with invalid DESIG\_CODE.**

SQL: DELETE FROM EMPLOYEE WHERE DESIG\_CODE NOT IN (SELECT DESIG\_CODE FROM DESIGNATION);

Q19) **Find the name of the female employees with basic greater than the average basic of their respective department.**

SQL: SELECT e.emp\_name FROM EMPLOYEE e

JOIN DEPARTMENT d ON e.dept\_code = d.dept\_code

JOIN DESIGNATION des ON e.desig\_code = des.desig\_code WHERE e.sex = 'F' AND e.basic > (

SELECT AVG(basic) FROM EMPLOYEE

WHERE dept\_code = e.dept\_code

);

Q20) **Find the number of female managers.**

SQL: SELECT COUNT(\*) AS female\_managers FROM EMPLOYEE e

JOIN DESIGNATION des ON e.desig\_code = des.desig\_code WHERE e.sex = 'F' AND des.desig\_desc = 'Manager' ;

+ +

| female\_managers |

+ +

| 1 |

+ +

## Assignment 3

Q1) **In an organization, number of departments exists. Each department has a name &amp; unique code. Number of employees work in each department. Each employee has unique employee code. Detailed information**

**like name, address, city, basic, date of join are also stored. In a leave register for each employee leave records are kept showing leave type (CL/EL/ML etc.), from-date and to-date. When an employee retires or resigns then all the leave information pertaining to him are also deleted. Basic salary must be within Rs.5000 to Rs.9000. A department can not be deleted if any employee record refers to it. Valid grades are A/B/C. Employee name must be in uppercase only. Default value for joining date is system date.**

**Design &amp; implement the tables with necessary constraints to support the scenario depicted above.**

-- Table for Department

CREATE TABLE DEPARTMENT (

dcode varchar(10) primary key, dept\_name varchar(30)

);

CREATE TABLE EMPLOYEE (

ecode varchar(10) primary key, dcode varchar(10) not null,

name varchar(30) check (name = UPPER(name)), address varchar(40),

city varchar(20),

basic decimal(9,2) check (basic >= 5000 AND basic <=9000), grades char(1) check(grades in ('A', 'B', 'C')),

doj datetime default CURRENT\_TIMESTAMP,

foreign key(dcode) references DEPARTMENT(dcode)

);

CREATE TABLE LEAVE\_REG (

ecode varchar(10) not null,

leave\_type char(4) check (leave\_type in ('CL','El','ML')), from\_date date,

to\_date date,

foreign key(ecode) references employee(ecode) on delete cascade

);

INSERT INTO DEPARTMENT VALUES (1, 'Sales'); INSERT INTO DEPARTMENT VALUES (2, 'Marketing');

INSERT INTO DEPARTMENT VALUES (3, 'Human Resources');

INSERT INTO employee (ecode, name, dcode, address, city, basic, grades) VALUES (2, 'El', '2023-06-01', '2023-06-05');

INSERT INTO leave\_reg (ecode, leave\_type, from\_date, to\_date) VALUES (3, 'ML', '2023-06-10', '2023-06-20');

INSERT INTO employee (ecode, name, dcode, address, city, basic, doj, grades) VALUES (2, 'Jane Smith', 2, '456 Elm Avenue', 'Los Angeles', 8000.00, '2023-05-28

10:30:00', 'B');

INSERT INTO employee (ecode, name, dcode, address, city, basic, grades) VALUES (3, 'Sarah Johnson', 1, '789 Oak Lane', 'Chicago', 5000.00, 'C'); INSERT INTO employee (ecode, name, dcode, address, city, basic, doj, grades)

VALUES (4, 'Michael Brown', 2, '987 Pine Street', 'San Francisco', 7500.00, '2022-12-15

09:00:00', 'A');

INSERT INTO employee (ecode, name, dcode, address, city, basic, grades) VALUES (5, 'Emily Wilson', 3, '654 Maple Avenue', 'Seattle', 8500.00, 'B');

INSERT INTO employee (ecode, name, dcode, address, city, basic, grades) VALUES (6, 'Suman Ghosh', 1, '123 Park Street', 'Kolkata', 6000.00, 'A');

INSERT INTO leave\_reg (ecode, leave\_type, from\_date, to\_date) VALUES (1, 'CL', '2023-05-28', '2023-05-29');

INSERT INTO leave\_reg (ecode, leave\_type, from\_date, to\_date)

Q3) **a) create a view showing employee code, name, dcode &amp; Basic For a particular department.**

1. **Try to ensure a row into the view with valid department &amp; also with invalid ones.**
2. **Find the newly inserted row in the table From which view was created .**
3. **Try to increment basic by Rs.100/-**
4. **Check it in the original table.**
5. **Delete the view.**

create view emp\_view as select ecode,name,dcode,basic from employee where dcode=1; update emp\_view set basic=basic+100;

select \* from emp\_view;

+ + + + +

| ecode | name | dcode | basic |

+ + + + +

| 1 | John Doe | 1 | 7100.00 |

| 3 | Sarah Johnson | 1 | 5100.00 |

| 6 | Suman Ghosh | 1 | 6100.00 |

+ + + + +

drop view emp\_view;

Q4) **a) create a view Showing empcode, name, deptname, basic, leave type, From date &amp; to date.**

1. **Try to insert a row in the view. Check what happens?**
2. **Try to increment basic by Rs.100.**
3. **Delete the view.**

create view emp\_view as select e.ecode,dept\_name,basic,leave\_type,from\_date,to\_date from employee e

join department d on e.dcode=d.dcode join leave\_reg lr on lr.ecode=e.ecode; select \* from emp\_view;

+ + + + + + +

| ecode | dept\_name | basic | leave\_type | from\_date | to\_date |

+ + + + + + +

| 1 | Sales | 7100.00 | CL | 2023-05-28 | 2023-05-29 |

| 3 | Sales | 5100.00 | ML | 2023-06-10 | 2023-06-20 |

| 2 | Marketing | 8000.00 | El | 2023-06-01 | 2023-06-05 |

+ + + + + + +

drop view emp\_view;

Q5) **a) Create a table having empcode , Name, deptname, &amp; basic From the existing tables along with the**

**records of the employee who are in a particular department (say, d1) and with a basic Rs. 7000/-**

1. **From the existing table, add the employees with the basic salary greater than or equal to 7000/-**
2. **Alter the table to add a net pay column.**
3. **Replace net pay with 1.5\* Basic.**
4. **Try to remove the net pay column.**

SQL: create table emp as(

select ecode,name,dept\_name,basic from employee e join department d on e.dcode=d.dcode

where e.dcode=1 and basic>=7000

);

alter table emp

add column net\_pay float8 not null; update emp set net\_pay=basic\*1.5;

Q6) **Drop all the tables that you have created.**

SQL:

Drop table department; Drop table emp;

Drop table employee; Drop table leave\_reg;