

Exp No: 5**COMPLEX SQL QUERIES - Date,Strings,Joins,Subquery****Aim:**

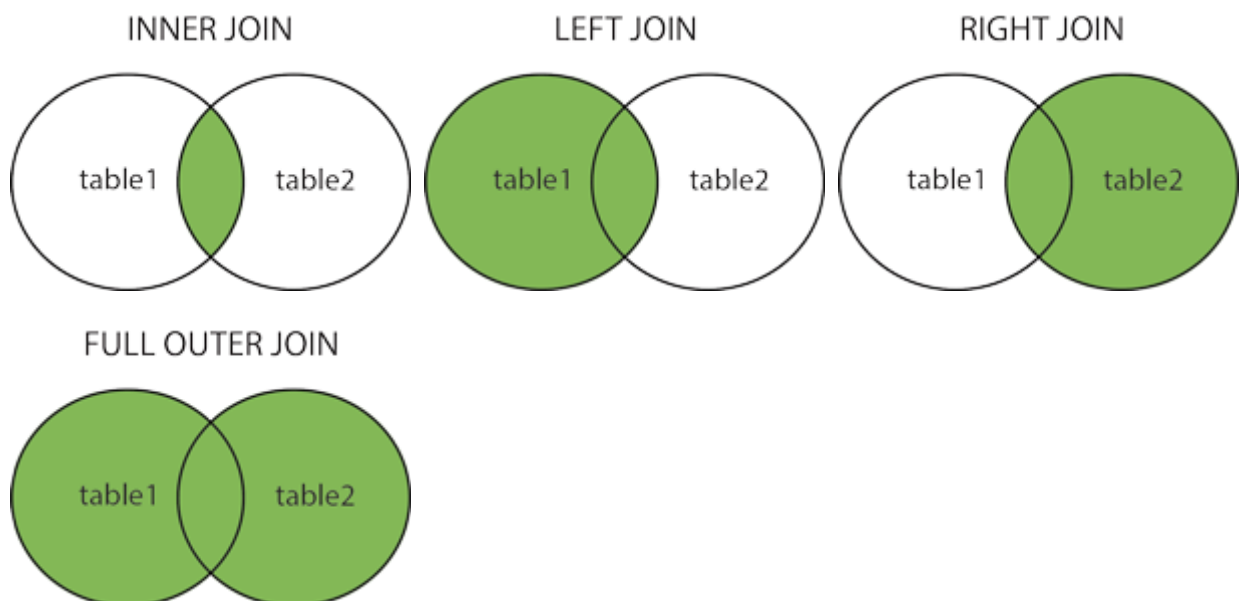
To execute the given Queries and to perform different Join operation for the application chosen .

Description:**SQL JOIN**

A JOIN clause is used to combine rows from two or more tables, based on a related column between them.

Different Types of SQL JOINS

- (INNER) JOIN: Returns records that have matching values in both tables
- LEFT (OUTER) JOIN: Return all records from the left table, and the matched records from the right table
- RIGHT (OUTER) JOIN: Return all records from the right table, and the matched records from the left table
- FULL (OUTER) JOIN: Return all records when there is a match in either left or right table



SQL> select * from customer;			SQL> select * from workout112;			SQL> select * from ExPlan;				
US_ID	US_NAME	DOB	EX_ID	EX_NAME	WATERIN	EX_ID	US_ID	SETS	REPS	BREAK
11	Nivas	03.03.2005	1	Plank	5	1	11	3	3	60s
12	Parvatha	05.04.2004	3	Inverted row	5	2	12	3	12	60s
13	Vaishu	15.09.2003	4	Goblet Squat	4	3	13	3	45	60s
14	Raju	21.10.1999	2	Squiz	5	4	14	4	12	60s
20	Geeta	28.02.2003				5	15	3	45	60s

INNER JOIN:**Syntax:**

SELECT *column_name(s)* FROM *table1* INNER JOIN *table2*

ON *table1.column_name* =

table2.column_name;

```
SQL> select ExPlan.Ex_Id, Customer.Us_Name from ExPlan inner join Customer on ExPlan.Us_Id=Customer.Us_Id;

  EX_ID  US_NAME
  -----
        1  Nivas
        2 Parvatha
        3  Vaishu
        4   Raju
```

```
SQL> select ExPlan.Ex_Id, Customer.Us_Name from Customer inner join ExPlan on ExPlan.Us_Id=Customer.Us_Id;

  EX_ID  US_NAME
  -----
        1  Nivas
        2 Parvatha
        3  Vaishu
        4   Raju
```

```
SQL> select ExPlan.Ex_Id, Customer.Us_Name from Customer inner join ExPlan on ExPlan.Us_Id=Customer.Us_Id order by Us_Name;

  EX_ID  US_NAME
  -----
        1  Nivas
        2 Parvatha
        4   Raju
        3  Vaishu
```

SQL LEFT JOIN Keyword

The LEFT JOIN keyword returns all records from the left table (table1), and the matched records from the right table (table2). The result is NULL from the right side, if there is no match.

Syntax:

SELECT *column_name(s)* FROM *table1* LEFT JOIN *table2* ON *table1.column_name* = *table2.column_name*;

```
SQL> select ExPlan.Ex_Id, Customer.Us_Name from ExPlan left join Customer on ExPlan.Us_Id=Customer.Us_Id;

  EX_ID  US_NAME
  -----
        1  Nivas
        2 Parvatha
        3  Vaishu
        4   Raju
        5

SQL> select ExPlan.Ex_Id, Customer.Us_Name from Customer left join ExPlan on ExPlan.Us_Id=Customer.Us_Id;

  EX_ID  US_NAME
  -----
        1  Nivas
        2 Parvatha
        3  Vaishu
        4   Raju
```

SQL RIGHT JOIN Keyword

The RIGHT JOIN keyword returns all records from the right table (table2), and the matched records from the left table (table1). The result is NULL from the left side, when there is no match.

Syntax

```
SELECT column_name(s) FROM table1 RIGHT JOIN table2
ON table1.column_name =
table2.column_name;
```

```
SQL> select ExPlan.Ex_Id, Customer.Us_Name from ExPlan right join Customer on ExPlan.Us_Id=Customer.Us_Id;

  EX_ID US_NAME
-----
      1 Nivas
      2 Parvatha
      3 Vaishu
      4 Raju
      5 Geeta

SQL> select ExPlan.Ex_Id, Customer.Us_Name from Customer right join ExPlan on ExPlan.Us_Id=Customer.Us_Id;

  EX_ID US_NAME
-----
      1 Nivas
      2 Parvatha
      3 Vaishu
      4 Raju
      5

SQL> select ExPlan.Ex_Id, Customer.Us_Name from Customer right join ExPlan on ExPlan.Us_Id=Customer.Us_Id order by Us_Name;

  EX_ID US_NAME
-----
      1 Nivas
      2 Parvatha
      4 Raju
      3 Vaishu
      5
```

SQL FULL OUTER JOIN

The FULL OUTER JOIN keyword return all records when there is a match in either left (table1) or right (table2) table records.

SYNTAX

```
SELECT column_name(s) FROM table1 FULL OUTER JOIN table2
ON table1.column_name = table2.column_name;
```

```
SQL> select ExPlan.Ex_Id, Customer.Us_Name, ExPlan.Sets from Customer full outer join ExPlan on ExPlan.Us_Id=Customer.Us_Id;

  EX_ID US_NAME   SETS
-----
      1 Nivas      3
      2 Parvatha   3
      3 Vaishu     3
      4 Raju       4
      5 Geeta      3

6 rows selected.

SQL> select ExPlan.Ex_Id, Customer.Us_Name, ExPlan.Sets from Customer full outer join ExPlan on ExPlan.Us_Id=Customer.Us_Id order by Us_Name;

  EX_ID US_NAME   SETS
-----
      5 Geeta      3
      1 Nivas      3
      2 Parvatha   3
      4 Raju       4
      3 Vaishu     3

6 rows selected.
```

SQL Self JOIN

A self-JOIN is a regular join, but the table is joined with itself.

Syntax

SELECT *column_name(s)* FROM *table1 T1, table1 T2* WHERE *condition*;

```
SQL> select A.Us_Name as Us1,B.Us_Name as Us2, A.DOB from Customer A, Customer B where A.Us_Id>B.Us_Id;
```

US1	US2	DOB
Parvatha	Nivas	05.04.2004
Vaishu	Nivas	15.09.2003
Vaishu	Parvatha	15.09.2003
Raju	Nivas	21.10.1999
Raju	Parvatha	21.10.1999
Raju	Vaishu	21.10.1999
Geeta	Nivas	28.02.2003
Geeta	Parvatha	28.02.2003
Geeta	Vaishu	28.02.2003
Geeta	Raju	28.02.2003

10 rows selected.

```
SQL> select A.Us_Name as Us1,B.Us_Name as Us2, A.DOB from Customer A, Customer B where A.Us_Id=B.Us_Id and A.Us_Name=B.Us_Name order by A.Us_Id;
```

US1	US2	DOB
Nivas	Nivas	03.03.2005
Parvatha	Parvatha	05.04.2004
Vaishu	Vaishu	15.09.2003
Raju	Raju	21.10.1999
Geeta	Geeta	28.02.2003

SQL UNION Operator

The UNION operator is used to combine the result-set of two or more SELECT statements.

- Each SELECT statement within UNION must have the same number of columns
- The columns must also have similar data types
- The columns in each SELECT statement must also be in the same order

Syntax

SELECT *column_name(s)* FROM *table1* UNION SELECT *column_name(s)* FROM *table2*;

```
SQL> select Us_Id from Customer Union select Us_Id from ExPlan order by Us_Id;
```

US_ID
11
12
13
14
15
20

6 rows selected.

```
SQL> select Us_Id from Customer Union select Ex_Id from ExPlan order by Us_Id;
```

US_ID
1
2
3
4
5
11
12
13
14
20

10 rows selected.

Union all: The UNION operator selects only distinct values by default. To allow duplicate values, use UNION ALL:

Syntax

SELECT *column_name(s)* FROM *table1* UNION ALL SELECT *column_name(s)* FROM *table2*;

```
SQL> select Us_Id from Customer Union all select Ex_Id from ExPlan order by Us_Id;
```

US_ID
1
2
3
4
5
11
12
13
14
20

SQL Aliases

SQL aliases are used to give a table, or a column in a table, a temporary name. Aliases are often used to make column names more readable. An alias only exists for the duration of the query.

Alias Column Syntax

SELECT *column_name* AS *alias_name* FROM *table_name*;

```
SQL> select Us_Name as Usname from Customer
```

USNAME
Nivas
Parvatha
Vaishu
Raju
Geeta

Alias Table Syntax

SELECT *column_name(s)* FROM *table_name* AS *alias_name*;

QUERIES:**Customer Table:**

customer_id	cust_name	city	grade	salesman_id
-----	-----	-----	-----	-----
3002	Nick Rimando	New York	100	5001
3005	Graham Zusi	California	200	5002
3001	Brad Guzan	London	100	5005
3004	Fabian Johns	Paris	300	5006
3007	Brad Davis	New York	200	5001
3009	Geoff Camero	Berlin	100	5003
3008	Julian Green	London	300	5002
3003	Jozy Altidor	Moncow	200	5007

Orders Table:

ord_no	purch_amt	ord_date	customer_id	salesman_id
-----	-----	-----	-----	---
70001	150.5	2012-10-05	3005	5002
70009	270.65	2012-09-10	3001	5005
70002	65.26	2012-10-05	3002	5001
70004	110.5	2012-08-17	3009	5003
70007	948.5	2012-09-10	3005	5002
70005	2400.6	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1983.43	2012-10-10	3004	5006
70003	2480.4	2012-10-10	3009	5003
70012	250.45	2012-06-27	3008	5002
70011	75.29	2012-08-17	3003	5007
70013	3045.6	2012-04-25	3002	5001

Salesman Table:

salesman_id	name	city	commission
-----	-----	-----	-----
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13

5005 Pit Alex London 0.11
 5006 Mc Lyon Paris 0.14
 5003 Lauson Hen San Jose 0.12
 5007 Paul Adam Rome 0.13

```
SQL> select * from customerr;
```

CUST	CNAME	CITY	GRADE	SALE
3002	nick	newyok	100	5001
3005	graha	califo	200	5002
3001	brad	london	100	5005
3004	johns	paris	300	5006
3007	davis	newyok	200	5001
3009	geoff	berlin	100	5003
3008	julia	london	300	5002
3003	jozy	moncow	200	5007

8 rows selected.

```
SQL> select * from salesman;
```

SALE	NAME	S_CITY	COMM
5001	james	newyok	0.15
5007	paul	rome	0.13
5002	nail	paris	0.13
5003	lauson	Sanjos	0.12
5005	pit	london	0.11
5006	mclyon	paris	0.14

6 rows selected.

```
SQL> select * from orders;
```

ORD_N	PURCH_AMT	ORD_DATE	CUST	SALE
70001	151	2012-09-10	3001	5005
70009	271	2012-10-05	3002	5001
70002	65.3	2012-08-17	3009	5003
70004	111	2012-09-10	3005	5002
70007	949	2012-07-27	3007	5001
70005	2400	2012-10-05	3005	5002
70008	5760	2012-09-10	3002	5001
70010	1980	2012-10-10	3004	5006
70003	2480	2012-10-10	3009	5003
70012	250	2012-06-27	3008	5002
70013	3050	2012-04-25	3002	5001

11 rows selected.

Boolean and Relational operators

1. Write a query to display all customers with a grade above 100.

```
SQL> select * from customerr where grade>100;
```

CUST	CNAME	CITY	GRADE	SALE
3005	graha	califo	200	5002
3004	johns	paris	300	5006
3007	davis	newyok	200	5001
3008	julia	london	300	5002
3003	jozy	moncow	200	5007

2. Write a query statement to display all customers in New York who have a grade value above 100

```
SQL> select * from customerr where grade>100 and city='newyok';
```

CUST	CNAME	CITY	GRADE	SALE
3007	davis	newyok	200	5001

3. Write a SQL statement to display all customers, who are either belongs to the city New York or had a grade above 100.

```
SQL> select * from customerr where grade>100 or city='newyok';
```

CUST	CNAME	CITY	GRADE	SALE
3002	nick	newyok	100	5001
3005	graha	califo	200	5002
3004	johns	paris	300	5006
3007	davis	newyok	200	5001
3008	julia	london	300	5002
3003	jozy	moncow	200	5007

4. Write a SQL statement to display all the customers, who are either belongs to the city New York or not had a grade above 100.

```
SQL> select * from customerr where grade<=100 or city='newyok';
```

CUST	CNAME	CITY	GRADE	SALE
3002	nick	newyok	100	5001
3001	brad	london	100	5005
3007	davis	newyok	200	5001
3009	geoff	berlin	100	5003

5. Write a SQL query to display those customers who are neither belongs to the city New York nor grade value is more than 100.

```
SQL> select * from customerr where grade<=100 or city!='newyok';
```

CUST	CNAME	CITY	GRADE	SALE
3002	nick	newyok	100	5001
3005	graha	califo	200	5002
3001	brad	london	100	5005
3004	johns	paris	300	5006
3009	geoff	berlin	100	5003
3008	julia	london	300	5002
3003	jozy	moncow	200	5007

6. Write a SQL statement to display either those orders which is not issued on date 2012-09-10 and issued by the salesman whose ID is 505 and below or those orders which purchase amount is 1000.00 and below.

ORD_N	PURCH_AMT	ORD_DATE	CUST	SALE
70001	151	2012-09-10	3001	5005
70009	271	2012-10-05	3002	5001
70002	65.3	2012-08-17	3009	5003
70004	111	2012-09-10	3005	5002
70007	949	2012-07-27	3007	5001
70005	2400	2012-10-05	3005	5002
70003	2480	2012-10-10	3009	5003
70012	250	2012-06-27	3008	5002
70013	3050	2012-04-25	3002	5001

7. Write a SQL statement to display salesman_id, name, city and commission who gets the commission within the range more than 0.10% and less than 0.12%.

```
SQL> select * from salesman where commission > '0.10' and commission < '0.12';
```

SALE	NAME	S_CITY	COMM
5005	pit	london	0.11

8. Write a SQL statement to display all information where purchase amount less than a specified amount or reverse order date greater than or equal to a specified date and customer id less than a specified number

```
SQL> select * from orders where(purch_amt<2000 or ord_date>='2012-09-10' and cust_id<3004);
```

ORD_N	PURCH_AMT	ORD_DATE	CUST	SALE
70001	151	2012-09-10	3001	5005
70009	271	2012-10-05	3002	5001
70002	65.3	2012-08-17	3009	5003
70004	111	2012-09-10	3005	5002
70007	949	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1980	2012-10-10	3004	5006
70012	250	2012-06-27	3008	5002

8 rows selected.

9. Write a SQL query to display all orders where purchase amount less than a specified amount or reverse orders in a specified date and customer ID less than a specified number.

```
SQL> select * from orders where(purch_amt<2000 or (ord_date='2012-09-10' and cust_id<3004));
```

ORD_N	PURCH_AMT	ORD_DATE	CUST	SALE
70001	151	2012-09-10	3001	5005
70009	271	2012-10-05	3002	5001
70002	65.3	2012-08-17	3009	5003
70004	111	2012-09-10	3005	5002
70007	949	2012-07-27	3007	5001
70008	5760	2012-09-10	3002	5001
70010	1980	2012-10-10	3004	5006
70012	250	2012-06-27	3008	5002

8 rows selected.

10. Display all reverse orders date where order dates equal to a specified date or customer id greater than a specified number and purchase amount less than a specified amount

```
SQL> select ord_date from orders where(ord_date='2012-09-10' or cust_id>3004 and purch_amt<1000);
```

ORD_DATE
2012-09-10
2012-08-17
2012-09-10
2012-07-27
2012-09-10
2012-06-27

6 rows selected.

11. Write a SQL query to display order number, purchase amount, for those order which exceeds the 50% of target value of 6000.

```
SQL> select ord_no, purch_amt from orders where(purch_amt>((50/100)*6000));
```

ORD_N	PURCH_AMT
70008	5760
70013	3050

Aggregate Functions and Group by

Create a table employee with the following fields:

EMPLOYEE_ID | FIRST_NAME | LAST_NAME | EMAIL | PHONE_NUMBER |
HIRE_DATE | JOB_ID

```
SQL> select * from Employee;
```

EM_ID	FN	LN	HIRE_DATE	JOB_I	SALARY	MAN_ID	DP
1	Aravin	R	12.12.2012	A1	24000	100	90
2	Nivas	Renga	1.10.2012	A2	17000	101	50
3	Geeta	Renga	03.1.2011	B1	9000	101	60
4	Renga	Nathan	03.1.2022	A1	6000	103	60
5	Viji	G	13.7.2023	C1	48000	103	90

1. Write a query to list the number of jobs available in the employees table.

```
SQL> select count(distinct Job_Id) from Employee;
```

COUNT(DISTINCTJOB_ID)
4

2. Write a query to get the total salaries payable to employees.

```
SQL> select sum(salary) from Employee;
```

SUM(SALARY)
104000

3. Write a query to get the minimum salary from employees table

```
SQL> select min(salary) from Employee;

MIN(SALARY)
-----
        6000
```

4. Write a query to get the maximum salary of an employee working as a Programmer.

```
SQL> select max(salary) from Employee;

MAX(SALARY)
-----
       48000
```

5. Write a query to get the average salary and number of employees working the department 90.

```
SQL> select Dp,avg(salary),count(*) from Employee where Dp='90' group by Dp order by avg(salary);

DP  AVG(SALARY)  COUNT(*)
--  -
90   36000        2
```

6. Write a query to get the highest, lowest, sum, and average salary of all employees

```
SQL> select max(salary),min(salary),avg(salary),sum(salary) from Employee;

MAX(SALARY) MIN(SALARY) AVG(SALARY) SUM(SALARY)
-----
       48000        6000       20800       104000
```

7. Write a query to get the number of employees with the same job.

```
SQL> select Job_Id, count(*) from Employee group by Job_Id;

JOB_I  COUNT(*)
-----
A2         1
A1         2
B1         1
C1         1
```

8. Write a query to get the difference between the highest and lowest salaries

```
SQL> select max(salary)-min(salary) difference from Employee;

DIFFERENCE
-----
       42000
```

9. Write a query to find the manager ID and the salary of the lowest-paid employee for that manager.

```
SQL> select Man_Id,min(salary) from Employee where Man_Id is not
null group by Man_Id order by min(salary) desc;
```

MAN_ID	MIN(SALARY)
100	24000
101	9000
103	6000

10. Write a query to get the department ID and the total salary payable in each department

```
SQL> select Dp,sum(salary) from Employee where Dp is not null group by Dp order by sum(salary);
```

DP	SUM(SALARY)
60	15000
50	17000
90	72000

```
SQL> select * from Employee;
```

EM_ID	FN	LN	SALARY	PH	EMAIL
1	Aravin	Mac	24000	9999456790	ar@example.com
2	Nivas	Renga	17000	9126784212	ni@example.com
3	Geeta	Renga	9000	9143424212	ge@example.com
4	Renga	Nathan	6000	6743210986	re@example.com
5	Viji	G	48000	6543290876	vi@example.com

```
SQL> select * from Employee;
```

EM_ID	FN	LN	SALARY	STREET	LOCATION
1	Aravin	Mac	24000	Abbey	California
2	Nivas	Renga	17000	Pendlee	US
3	Geeta	Renga	9000	Pitt	California
4	Renga	Nathan	6000	Bal	Europe
5	Viji	G	48000	Churh	India

String functions:

- Write a query to update the portion of the phone_number in the employees table, within the phone number the substring '123' will be replaced by '999'.

```
SQL> update Employee set Ph=replace(Ph,'123','999')
2 where Ph like '%123%';
```

```
1 row updated.
```

```
SQL> select * from Employee;
```

EM_ID	FN	LN	SALARY	PH	EMAIL
1	Aravin	R	24000	9999456790	ar
2	Nivas	Renga	17000	9126784212	ni
3	Geeta	Renga	9000	9143424212	ge
4	Renga	Nathan	6000	6743210986	re
5	Viji	G	48000	6543290876	vi

- Write a query to get the details of the employees where the length of the first name greater than or equal to 8

```
SQL> select * from Employee where length(FN)>=5;
```

EM_ID	FN	LN	SALARY	PH	EMAIL
1	Aravin	R	24000	9999456790	ar
2	Nivas	Renga	17000	9126784212	ni
3	Geeta	Renga	9000	9143424212	ge
4	Renga	Nathan	6000	6743210986	re

3. Write a query to display leading zeros before maximum and minimum salary.

```
SQL> select * from Employee;
```

EM_ID	FN	LN	MAX_SAL	MIN_SAL
1	Aravin	Mac	24000	10000
2	Nivas	Renga	17000	9000
3	Geeta	Renga	9000	5000
4	Renga	Nathan	6000	3000
5	Viji	G	48000	33000

```
SQL> select Em_Id, lpad(Max_sal,7,'0') ,lpad(Min_sal,7,'0') from Employee;
```

EM_ID	LPAD(MAX_SAL,7,'0')	LPAD(MIN_SAL,7,'0')
1	0024000	0010000
2	0017000	0009000
3	0009000	0005000
4	0006000	0003000
5	0048000	0033000

4. Write a query to append '@example.com' to email field.

```
SQL> update Employee set Email=concat(Email,'@example.com');
```

5 rows updated.

```
SQL> select * from Employee;
```

EM_ID	FN	LN	SALARY	PH	EMAIL
1	Aravin	R	24000	9999456790	ar@example.com
2	Nivas	Renga	17000	9126784212	ni@example.com
3	Geeta	Renga	9000	9143424212	ge@example.com
4	Renga	Nathan	6000	6743210986	re@example.com
5	Viji	G	48000	6543290876	vi@example.com

5. Write a query to get the employee id, email id (discard the last three characters)

```
SQL> select Em_Id, reverse(substr(reverse(Email),4)) as email from Employee;
```

EM_ID	EMAIL
1	ar@example.
2	ni@example.
3	ge@example.
4	re@example.
5	vi@example.

6. Write a query to extract the last 4 character of phone numbers.

```
SQL> select Ph, substr(ph,7) from Employee;
```

PH	SUBSTR(PH,7)
9999456790	6790
9126784212	4212
9143424212	4212
6743210986	0986
6543290876	0876

7. Write a query to get the locations that have minimum street length

```
SQL> select location from Employee where length(Street)<=(select min(length(Street)) from Employee);
```

LOCATION
Europe

8. Write a query to display the length of first name for employees where last name contain character 'c' after 2nd position.

```
SQL> select FN,length(FN),LN from Employee where instr(LN,'c')>2;
```

FN	LENGTH(FN)	LN
Aravin	6	Mac

9. Write a query that displays the first name and the length of the first name for all employees whose name starts with the letters 'A', 'J' or 'M'. Give each column an appropriate label. Sort the results by the employees' first names.

```
SQL> select FN,length(FN) from Employee
2 where FN like 'A%'
3 or FN like 'M%'
4 or FN like 'J%'
5 order by FN;
```

FN	LENGTH(FN)
Aravin	6

10. Write a query to display the first name and salary for all employees. Format the salary to be 10 characters long, left-padded with the \$ symbol. Label the column SALARY.

```
SQL> select FN,
2 LPAD(salary,10,'$') SALARY
3 from Employee;
```

FN	SALARY
Aravin	\$\$\$\$\$24000
Nivas	\$\$\$\$\$17000
Geeta	\$\$\$\$\$9000
Renga	\$\$\$\$\$6000
Viji	\$\$\$\$\$48000

Date functions :

1. Write a query to display the first day of the month (in datetime format) three months before the current month.

```
SQL> SELECT TRUNC(ADD_MONTHS(TRUNC(SYSDATE, 'MM'), -3)) AS first_day_of_month FROM DUAL;
```

FIRST_DAY
01-NOV-23

2. Write a query to get the distinct Mondays from hire_date in employees tables.

```
SQL> SELECT DISTINCT NEXT_DAY(TO_DATE(Hire_Date, 'YYYY-MM-DD') - 7, 'MONDAY')
AS monday_date
2 FROM Employee;

MONDAY_DA
-----
29-JAN-24
10-JUN-24
18-NOV-24
06-MAY-24
04-MAR-24
```

3. Write a query to get the last day of the current year

```
SQL> SELECT TRUNC(ADD_MONTHS(TRUNC(SYSDATE, 'YEAR'), 12) - 1) AS last_day_of_year FROM DUAL;

LAST_DAY_
-----
31-DEC-24
```

4. Write a query to get the current date in the following format.

Sample date : 2014-09-04

Output : September 4, 2014

```
SQL> SELECT TO_CHAR(SYSDATE, 'Month DD, YYYY') AS formatted_date FROM DUAL;

FORMATTED_DATE
-----
February 23, 2024
```

5. Write a query to get the current date in the following format. Thursday

September 2014

```
SQL> SELECT TO_CHAR(SYSDATE, 'Day Month YYYY') AS formatted_date FROM DUAL;

FORMATTED_DATE
-----
Friday February 2024
```

6. Write a query to get the first name and hire date from employees table where hire date between '1987-06-01' and '1987-07-30'

```
SQL> SELECT FN, Hire_Date
2 FROM Employee
3 WHERE Hire_Date BETWEEN '2024-03-01' AND '2024-07-30';

FN          HIRE_DATE
-----
Nivas       2024-05-12
Geeta       2024-03-07
Viji        2024-06-15
```

Result:

Thus the given Queries were executed and Join operations were performed for the application chosen