



# ATMIYA University

Faculty of Science

Department of Computer Application

Master of Computer Application

**Code :- 23MCACC107 | Subject-Name:- Databases Enterprise Applications**

**NAME:-Jainish Barbhaya**

**RegisterNumber:-15618223014**

--Create Data in Employee table:--

```
create table Employees(  
    employee_id int primary key,  
    first_name varchar2(50) ,  
    last_name varchar2(50),  
    hire_date date ,  
    salary number(10,2)  
);
```

--Insert data in Employee table: --

```
insert into Employees(employee_id,first_name,last_name,hire_date,salary)  
    VALUES (1,'John','Doe','01-Jul-2022',60000.00);  
  
insert into Employees(employee_id,first_name,last_name,hire_date,salary)  
    VALUES (2,'Jane','Smith','','55000.00);  
  
insert into Employees(employee_id,first_name,last_name,hire_date,salary)  
    VALUES (3,'Michael','Johnson','15-mar-2023','');  
  
insert into Employees(employee_id,first_name,last_name,hire_date,salary)  
    VALUES (4,'Emily','Williams','','');  
  
insert into Employees(employee_id,first_name,last_name,hire_date,salary)  
    VALUES (5,'Daniel','Brown','05-sep-2022',48000.00);  
  
insert into Employees(employee_id,first_name,last_name,hire_date,salary)  
    VALUES (6,'Laura','Davis','20-apr-2023',52000.00);  
  
insert into Employees(employee_id,first_name,last_name,hire_date,salary)  
    VALUES  
(7,'Matthew','Wilson','10-dec-2021',54000.00);
```



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```
insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (8,'Emma','Brown','','');

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (9,'Olivia','Jones','30-may-2023',59000.00);

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (10,'Noah','Smith','08-aug-2022','');

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (11,'William','Johnson','25-jun-2021',45000.00);

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (12,'Ava','Williams','','');

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (13,'Sophia','Davis','18-feb-2023',57000.00);

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (14,'James','Wilson','','');

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (15,'Oliver','Miller','12-oct-2022',51000.00);

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (16,'Amelia','Brown','','');

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (17,'Benjamin','Davis','02-dec-2021',53000.00);

insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (18,'Elijah','Wilson','09-mar-2023','');
```



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```
insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (19,'Lucas','Brown','22-jun-2022',56000.00);
```

```
insert into Employees(employee_id,first_name,last_name,hire_date,salary)
VALUES (20,'Mia','Johnson','','');
```

Recode inserted.

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
2	Jane	Smith		55000
3	Michael	Johnson	15-03-23	
4	Emily	Williams		
5	Daniel	Brown	05-09-22	48000
6	Laura	Davis	20-04-23	52000
7	Matthew	Wilson	10-12-21	54000
8	Emma	Brown		
9	Olivia	Jones	30-05-23	59000
10	Noah	Smith	08-08-22	
11	William	Johnson	25-06-21	45000
12	Ava	Williams		
13	Sophia	Davis	18-02-23	57000
14	James	Wilson		
15	Oliver	Miller	12-10-22	51000
16	Amelia	Brown		
17	Benjamin	Davis	02-12-21	53000
18	Elijah	Wilson	09-03-23	
19	Lucas	Brown	22-06-22	56000
20	Mia	Johnson		



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-- Basic SELECT Queries: --

1.)Display the details of all employees.

```
SELECT * from Employees;
```

2.)Show the first and last names of employees.

```
SELECT first_name , last_name FROM Employees;
```

OUTPUT:-

FIRST_NAME	LAST_NAME
John	Doe
Jane	Smith
Michael	Johnson
Emily	Williams
Daniel	Brown
Laura	Davis
Matthew	Wilson
Emma	Brown
Olivia	Jones
Noah	Smith
William	Johnson
Ava	Williams
Sophia	Davis
James	Wilson
Oliver	Miller
Amelia	Brown
Benjamin	Davis
Elijah	Wilson
Lucas	Brown



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Mia

Johnson

3.)List the employee IDs and hire dates.

```
SELECT employee_id, hire_date FROM Employees;
```

OUTPUT:-

EMPLOYEE_ID	HIRE_DATE
1	01-07-22
2	
3	15-03-23
4	
5	05-09-22
6	20-04-23
7	10-12-21
8	
9	30-05-23
10	08-08-22
11	25-06-21
12	
13	18-02-23
14	
15	12-10-22
16	
17	02-12-21
18	09-03-23
19	22-06-22
20	



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4.)Retrieve the **first name**, **last name**, and salary of employees.

```
SELECT first_name ,last_name, salary FROM Employees;
```

OUTPUT:-

FIRST_NAME	LAST_NAME	SALARY
John	Doe	60000
Jane	Smith	55000
Michael	Johnson	
Emily	Williams	
Daniel	Brown	48000
Laura	Davis	52000
Matthew	Wilson	54000
Emma	Brown	
Olivia	Jones	59000
Noah	Smith	
William	Johnson	45000
Ava	Williams	
Sophia	Davis	57000
James	Wilson	
Oliver	Miller	51000
Amelia	Brown	
Benjamin	Davis	53000
Elijah	Wilson	
Lucas	Brown	56000
Mia	Johnson	

5.)Display all columns for employees hired **after** January 1, 2022.

```
SELECT * FROM Employees WHERE hire_date > TO_DATE('01-jan-2022',  
'DD-MM-YYYY');
```



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OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
3	Michael	Johnson	15-03-23	
5	Daniel	Brown	05-09-22	48000
6	Laura	Davis	20-04-23	52000
9	Olivia	Jones	30-05-23	59000
10	Noah	Smith	08-08-22	
13	Sophia	Davis	18-02-23	57000
15	Oliver	Miller	12-10-22	51000
18	Elijah	Wilson	09-03-23	
19	Lucas	Brown	22-06-22	56000

6.)Display the employee IDs and last names of employees.

```
SELECT employee_id, last_name FROM Employees;
```

OUTPUT:-

EMPLOYEE_ID	LAST_NAME
1	Doe
2	Smith
3	Johnson
4	Williams
5	Brown
6	Davis
7	Wilson
8	Brown
9	Jones



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```
10 Smith
11 Johnson
12 Williams
13 Davis
14 Wilson
15 Miller
16 Brown
17 Davis
18 Wilson
19 Brown
20 Johnson
```

7.)List the hire dates and salaries of all employees.

```
SELECT hire_date, salary FROM Employees;
```

OUTPUT:-

HIRE_DATE	SALARY
01-07-22	60000
	55000
15-03-23	
05-09-22	48000
20-04-23	52000
10-12-21	54000
30-05-23	59000
08-08-22	
25-06-21	45000
18-02-23	57000
12-10-22	51000
02-12-21	53000
09-03-23	





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22-06-22

56000

8.)Display all columns for employees with a salary greater than \$50000.00.

```
SELECT * FROM Employees WHERE salary > 50000.00;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
2	Jane	Smith		55000
6	Laura	Davis	20-04-23	52000
7	Matthew	Wilson	10-12-21	54000
9	Olivia	Jones	30-05-23	59000
13	Sophia	Davis	18-02-23	57000
15	Oliver	Miller	12-10-22	51000
17	Benjamin	Davis	02-12-21	53000
19	Lucas	Brown	22-06-22	56000

9.)Show the first name, last name, and hire date of employees hired before July 1, 2023.

```
SELECT first_name,last_name,hire_date FROM Employees WHERE hire_date < TO_DATE('01-jul-2023', 'DD-MM-YYYY');
```

OUTPUT:-

FIRST_NAME	LAST_NAME	HIRE_DATE
John	Doe	01-07-22
Michael	Johnson	15-03-23
Daniel	Brown	05-09-22



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Laura	Davis	20-04-23
Matthew	Wilson	10-12-21
Olivia	Jones	30-05-23
Noah	Smith	08-08-22
William	Johnson	25-06-21
Sophia	Davis	18-02-23
Oliver	Miller	12-10-22
Benjamin	Davis	02-12-21
Elijah	Wilson	09-03-23
Lucas	Brown	22-06-22

-- Using WHERE Clause: --

1.)List employees hired in the year 2023.

```
SELECT * FROM Employees WHERE EXTRACT(YEAR FROM hire_date) = 2023;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
3	Michael	Johnson	15-03-23	
6	Laura	Davis	20-04-23	52000
9	Olivia	Jones	30-05-23	59000
13	Sophia	Davis	18-02-23	57000
18	Elijah	Wilson	09-03-23	

2.)Show employees with salaries greater than \$55000.00.

```
SELECT * FROM Employees WHERE salary > 55000.00;
```

OUTPUT:-



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EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
9	Olivia	Jones	30-05-23	59000
13	Sophia	Davis	18-02-23	57000
19	Lucas	Brown	22-06-22	56000

3.) Display employees with null hire dates.

```
SELECT * FROM Employees WHERE hire_date IS NULL;
```

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
2	Jane	Smith		55000
4	Emily	Williams		
8	Emma	Brown		
12	Ava	Williams		
14	James	Wilson		
16	Amelia	Brown		
20	Mia	Johnson		

4.) List employees with first names starting with 'J'.

```
SELECT * FROM Employees WHERE first_name LIKE 'J%';
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
2	Jane	Smith		55000
14	James	Wilson		



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5.) Retrieve employees with a salary between \$50000.00 and \$60000.00.

```
SELECT * FROM employees WHERE salary >= 50000.00 AND salary <= 60000.00;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
2	Jane	Smith		55000
6	Laura	Davis	20-04-23	52000
7	Matthew	Wilson	10-12-21	54000
9	Olivia	Jones	30-05-23	59000
13	Sophia	Davis	18-02-23	57000
15	Oliver	Miller	12-10-22	51000
17	Benjamin	Davis	02-12-21	53000
19	Lucas	Brown	22-06-22	56000

6.) List employees with last names containing 'son'.

```
SELECT * FROM employees WHERE last_name LIKE '%son';
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
3	Michael	Johnson	15-03-23	
7	Matthew	Wilson	10-12-21	54000
11	William	Johnson	25-06-21	45000
14	James	Wilson		
18	Elijah	Wilson	09-03-23	
20	Mia	Johnson		



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7.) Show employees with salaries less than \$60000.00 and hired in 2022.

```
SELECT * FROM Employees WHERE salary < 60000.00 AND EXTRACT(YEAR FROM  
hire_date) = 2022;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
5	Daniel	Brown	05-09-22	48000
15	Oliver	Miller	12-10-22	51000
19	Lucas	Brown	22-06-22	56000

8.) Display employees with hire dates after January 1, 2021, and salaries less than \$55000.00.

```
SELECT * FROM Employees WHERE hire_date > TO_DATE('01-jan-2021',  
'DD-MM-YYYY') AND salary < 55000.00;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
5	Daniel	Brown	05-09-22	48000
6	Laura	Davis	20-04-23	52000
7	Matthew	Wilson	10-12-21	54000
11	William	Johnson	25-06-21	45000
15	Oliver	Miller	12-10-22	51000
17	Benjamin	Davis	02-12-21	53000

9.) List employees with first names starting with 'M' or last names ending with 'son'.



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```
SELECT * FROM Employees WHERE first_name LIKE 'M%' AND last_name LIKE '%son';
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
3	Michael	Johnson	15-03-23	
7	Matthew	Wilson	10-12-21	54000
20	Mia	Johnson		

10.) Show employees with salaries greater than \$50000.00 and not hired in 2023.

```
SELECT * FROM Employees WHERE salary > 50000.00 AND EXTRACT(YEAR FROM hire_date) != 2023;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
7	Matthew	Wilson	10-12-21	54000
15	Oliver	Miller	12-10-22	51000
17	Benjamin	Davis	02-12-21	53000
19	Lucas	Brown	22-06-22	56000

-- Using NVL() Function: --

1.) Show the employee IDs and salaries. Replace null salaries with 0.

```
SELECT Employee_id, NVL(salary, 0) AS salary FROM employees;
```



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OUTPUT:-

EMPLOYEE_ID	SALARY
1	60000
2	55000
3	0
4	0
5	48000
6	52000
7	54000
8	0
9	59000
10	0
11	45000
12	0
13	57000
14	0
15	51000
16	0
17	53000
18	0
19	56000
20	0

2.) Display the first name and last name of employees. Replace null first names with 'Unknown'.

```
SELECT NVL(first_name, 'Unknown') AS first_name, last_name FROM employees;
```

OUTPUT:-



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FIRST_NAME	LAST_NAME
John	Doe
Jane	Smith
Michael	Johnson
Emily	Williams
Daniel	Brown
Laura	Davis
Matthew	Wilson
Emma	Brown
Olivia	Jones
Noah	Smith
William	Johnson
Ava	Williams
Sophia	Davis
James	Wilson
Oliver	Miller
Amelia	Brown
Benjamin	Davis
Elijah	Wilson
Lucas	Brown
Mia	Johnson

3.) Show the employee IDs and salaries. Replace null salaries with the average salary.

```
SELECT Employee_id, NVL(salary, AVG(salary) OVER ()) AS salary FROM Employees;
```



OUTPUT :-

[illegible]

```
-- Using Concatenate Operator: --
```

1.) List the full names (first name and last name) of employees.

```
SELECT first name || ' ' || last name As full name FROM Employees;
```

OUTPUT:-



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FULL\_NAME

---

John Doe  
Jane Smith  
Michael Johnson  
Emily Williams  
Daniel Brown  
Laura Davis  
Matthew Wilson  
Emma Brown  
Olivia Jones  
Noah Smith  
William Johnson  
Ava Williams  
Sophia Davis  
James Wilson  
Oliver Miller  
Amelia Brown  
Benjamin Davis  
Elijah Wilson  
Lucas Brown  
Mia Johnson

2.) Show employee IDs and concatenated first and last names.

```
SELECT employee_id, first_name || ' ' || last_name As full_name FROM  
Employees;
```

OUTPUT:-



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EMPLOYEE_ID	FULL_NAME
1	John Doe
2	Jane Smith
3	Michael Johnson
4	Emily Williams
5	Daniel Brown
6	Laura Davis
7	Matthew Wilson
8	Emma Brown
9	Olivia Jones
10	Noah Smith
11	William Johnson
12	Ava Williams
13	Sophia Davis
14	James Wilson
15	Oliver Miller
16	Amelia Brown
17	Benjamin Davis
18	Elijah Wilson
19	Lucas Brown
20	Mia Johnson

3.) Display a message: "Employee [employee\_id] [first\_name] [last\_name] has a salary of [salary]".

```
SELECT 'Employee ' || employee_id || ' ' || first_name || ' ' ||  
last_name || ' has a salary of ' || NVL (salary,0) || '.' AS message  
2 FROM employees;
```

OUTPUT:-



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## MESSAGE

---

```
Employee 1 John Doe has a salary of 60000.
Employee 2 Jane Smith has a salary of 55000.
Employee 3 Michael Johnson has a salary of 0.
Employee 4 Emily Williams has a salary of 0.
Employee 5 Daniel Brown has a salary of 48000.
Employee 6 Laura Davis has a salary of 52000.
Employee 7 Matthew Wilson has a salary of 54000.
Employee 8 Emma Brown has a salary of 0.
Employee 9 Olivia Jones has a salary of 59000.
Employee 10 Noah Smith has a salary of 0.
Employee 11 William Johnson has a salary of 45000.
Employee 12 Ava Williams has a salary of 0.
Employee 13 Sophia Davis has a salary of 57000.
Employee 14 James Wilson has a salary of 0.
Employee 15 Oliver Miller has a salary of 51000.
Employee 16 Amelia Brown has a salary of 0.
Employee 17 Benjamin Davis has a salary of 53000.
Employee 18 Elijah Wilson has a salary of 0.
Employee 19 Lucas Brown has a salary of 56000.
Employee 20 Mia Johnson has a salary of 0
```

4.)List the full names (last name, comma, first name) of employees.

```
SELECT last_name || ', ' || first_name AS full_name FROM employees;
```

OUTPUT:-

FULL\_NAME

---

Doe, John

Smith, Jane



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Johnson,Michael  
Williams,Emily  
Brown,Daniel  
Davis,Laura  
Wilson,Matthew  
Brown,Emma  
Jones,Olivia  
Smith,Noah  
Johnson,William  
Williams,Ava  
Davis,Sophia  
Wilson,James  
Miller,Oliver  
Brown,Amelia  
Davis,Benjamin  
Wilson,Elijah  
Brown,Lucas  
Johnson,Mia

5.) Show employee IDs and concatenated last name, space, and first name.

```
SELECT employee_id, last_name || ' ' || first_name As full_name FROM  
Employees;
```

OUTPUT:-

EMPLOYEE_ID	FULL_NAME
1	Doe John
2	Smith Jane
3	Johnson Michael
4	Williams Emily
5	Brown Daniel



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```
6 Davis Laura
7 Wilson Matthew
8 Brown Emma
9 Jones Olivia
10 Smith Noah
11 Johnson William
12 Williams Ava
13 Davis Sophia
14 Wilson James
15 Miller Oliver
16 Brown Amelia
17 Davis Benjamin
18 Wilson Elijah
19 Brown Lucas
20 Johnson Mia
```

6.)Display a message: "Employee [last\_name], [first\_name] has a salary of [salary]."

```
SELECT 'Employee' || ' ' || last_name || ' ' || first_name || ' ' ||
'has a salary of' || salary || ' ' || '.' AS message FROM
Employees;
```

OUTPUT:-

MESSAGE

---

```
Employee Doe John has a salary of60000 .
Employee Smith Jane has a salary of55000 .
Employee Johnson Michael has a salary of .
Employee Williams Emily has a salary of .
Employee Brown Daniel has a salary of48000 .
Employee Davis Laura has a salary of52000 .
```



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Employee Wilson Matthew has a salary of 54000 .  
Employee Brown Emma has a salary of .  
Employee Jones Olivia has a salary of 59000 .  
Employee Smith Noah has a salary of .  
Employee Johnson William has a salary of 45000 .  
Employee Williams Ava has a salary of .  
Employee Davis Sophia has a salary of 57000 .  
Employee Wilson James has a salary of .  
Employee Miller Oliver has a salary of 51000 .  
Employee Brown Amelia has a salary of .  
Employee Davis Benjamin has a salary of 53000 .  
Employee Wilson Elijah has a salary of .  
Employee Brown Lucas has a salary of 56000 .  
Employee Johnson Mia has a salary of .

-- Using ANY(), SOME(), and ALL(): --

1.) List employees with salaries greater than ANY other employees salary.

```
SELECT * From Employees WHERE salary > ANY (SELECT salary FROM Employees);
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
9	Olivia	Jones	30-05-23	59000
13	Sophia	Davis	18-02-23	57000
19	Lucas	Brown	22-06-22	56000
2	Jane	Smith		55000
7	Matthew	Wilson	10-12-21	54000
17	Benjamin	Davis	02-12-21	53000



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6	Laura	Davis	20-04-23	52000
15	Oliver	Miller	12-10-22	51000
5	Daniel	Brown	05-09-22	48000

2.) Show employees with salaries greater than the minimum salary in the company.

```
SELECT * FROM Employees WHERE salary > (SELECT MIN(salary) FROM Employees);
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
2	Jane	Smith		55000
5	Daniel	Brown	05-09-22	48000
6	Laura	Davis	20-04-23	52000
7	Matthew	Wilson	10-12-21	54000
9	Olivia	Jones	30-05-23	59000
13	Sophia	Davis	18-02-23	57000
15	Oliver	Miller	12-10-22	51000
17	Benjamin	Davis	02-12-21	53000
19	Lucas	Brown	22-06-22	56000

3.) Display employees with salaries less than ALL other employees salaries.

```
SELECT * FROM Employees WHERE salary < ALL (SELECT salary FROM Employees);
```

OUTPUT:-

no rows selected





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4.)List employees with salaries greater than ANY other employees salary.

```
SELECT * FROM Employees WHERE salary > ANY (SELECT salary FROM Employees);
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
9	Olivia	Jones	30-05-23	59000
13	Sophia	Davis	18-02-23	57000
19	Lucas	Brown	22-06-22	56000
2	Jane	Smith		55000
7	Matthew	Wilson	10-12-21	54000
17	Benjamin	Davis	02-12-21	53000
6	Laura	Davis	20-04-23	52000
15	Oliver	Miller	12-10-22	51000
5	Daniel	Brown	05-09-22	48000

5.)Show employees with salaries greater than SOME of the salaries.

```
SELECT * FROM Employees WHERE salary > SOME (SELECT salary FROM Employees);
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
9	Olivia	Jones	30-05-23	59000
13	Sophia	Davis	18-02-23	57000



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19	Lucas	Brown	22-06-22	56000
2	Jane	Smith		55000
7	Matthew	Wilson	10-12-21	54000
17	Benjamin	Davis	02-12-21	53000
6	Laura	Davis	20-04-23	52000
15	Oliver	Miller	12-10-22	51000
5	Daniel	Brown	05-09-22	48000

6.)Display employees with salaries less than ALL employees salaries.

```
SELECT * FROM Employees WHERE salary < ALL (SELECT salary FROM Employees);
```

OUTPUT:-

no rows selected

-- Combining Functions and Operators: --

1.)Display the employee IDs and names for employees hired in 2022.

```
SELECT employee_id, first_name, last_name FROM Employees WHERE EXTRACT(YEAR FROM hire_date) = 2022;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME
1	John	Doe
5	Daniel	Brown
10	Noah	Smith
15	Oliver	Miller
19	Lucas	Brown



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2.)List the first name and salary of employees with salaries greater than \$55000.00 and hired in 2021.

```
SELECT first_name, salary FROM Employees WHERE salary > 55000 AND  
EXTRACT(YEAR FROM hire_date) = 2021;
```

OUTPUT:-

no rows selected

3.)Display the employee IDs and last names for employees hired before January 1, 2022, or with a salary greater than \$55000.00.

```
SELECT employee_id,last_name FROM Employees WHERE hire_date <  
TO_DATE('01-jan-2022', 'DD-MM-YYYY') AND salary > 55000.00;
```

OUTPUT:-

no rows selected

4.)List the first name and salary of employees hired in 2022 with salaries greater than \$50000.00.

```
SELECT first_name, salary FROM Employees WHERE EXTRACT(YEAR FROM  
hire_date) = 2022 AND salary > 50000;
```

OUTPUT:-

FIRST_NAME	SALARY
John	60000
Oliver	51000



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Lucas 56000

--Using Logical Operators: --

1.)Display employees hired in 2022 with salaries less than \$55000.00.

```
SELECT * FROM Employees WHERE EXTRACT(YEAR FROM hire_date) = 2022 AND salary < 55000.00;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
5	Daniel	Brown	05-09-22	48000
15	Oliver	Miller	12-10-22	51000

2.)List employees with non-null hire dates and salaries.

```
SELECT * FROM Employees WHERE hire_date IS NOT NULL AND salary IS NOT NULL;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
5	Daniel	Brown	05-09-22	48000
6	Laura	Davis	20-04-23	52000
7	Matthew	Wilson	10-12-21	54000
9	Olivia	Jones	30-05-23	59000
11	William	Johnson	25-06-21	45000
13	Sophia	Davis	18-02-23	57000
15	Oliver	Miller	12-10-22	51000



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17	Benjamin	Davis	02-12-21	53000
19	Lucas	Brown	22-06-22	56000

3.) Show employees with salaries less than \$50000.00 or hired in 2023.

```
SELECT * FROM Employees WHERE salary < 50000.00 OR EXTRACT(YEAR FROM  
hire_date) = 2023;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
3	Michael	Johnson	15-03-23	
5	Daniel	Brown	05-09-22	48000
6	Laura	Davis	20-04-23	52000
9	Olivia	Jones	30-05-23	59000
11	William	Johnson	25-06-21	45000
13	Sophia	Davis	18-02-23	57000
18	Elijah	Wilson	09-03-23	

4.) Display employees with last names containing 'Brown' or hired in 2023 with salaries less than \$60000.00.

```
SELECT * FROM Employees WHERE (last_name LIKE '%Brown%' OR EXTRACT(YEAR  
FROM hire_date) = 2023) AND salary < 60000.00;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
5	Daniel	Brown	05-09-22	48000
6	Laura	Davis	20-04-23	52000
9	Olivia	Jones	30-05-23	59000



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13	Sophia	Davis	18-02-23	57000
19	Lucas	Brown	22-06-22	56000

5.)List employees with non-null hire dates and salaries.

```
SELECT * FROM Employees WHERE hire_date IS NOT NULL AND salary IS NOT NULL;
```

OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
1	John	Doe	01-07-22	60000
5	Daniel	Brown	05-09-22	48000
6	Laura	Davis	20-04-23	52000
7	Matthew	Wilson	10-12-21	54000
9	Olivia	Jones	30-05-23	59000
11	William	Johnson	25-06-21	45000
13	Sophia	Davis	18-02-23	57000
15	Oliver	Miller	12-10-22	51000
17	Benjamin	Davis	02-12-21	53000
19	Lucas	Brown	22-06-22	56000

6.)Show employees with salaries less than \$50000.00 and hire dates either before January 1, 2022, or null.

```
SELECT * FROM Employees WHERE salary < 50000.00 AND (hire_date < DATE '2022-01-01' OR hire_date IS NULL);
```



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OUTPUT:-

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	HIRE_DATE	SALARY
11	William	Johnson	25-06-21	45000