

Joins in 7ways:

1. Show first_name, last_name, salary, Department_id , department_name, Location_id, job_title, max_salary For all employees

Who joined after 2003 and

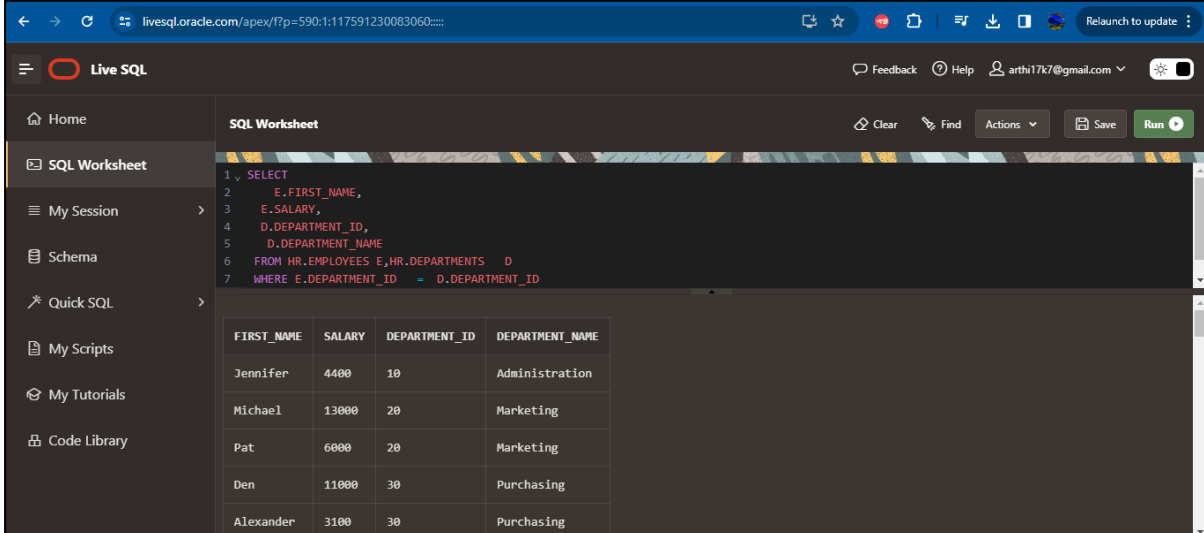
Whose are not 'Programmer' Join HR.EMPLOYEES E and HR.DEPARTMENTS D

ALL 7 WAYS - OF QUERIES

(2 inner, 2 right, 2 left, 1 full)

SHOW

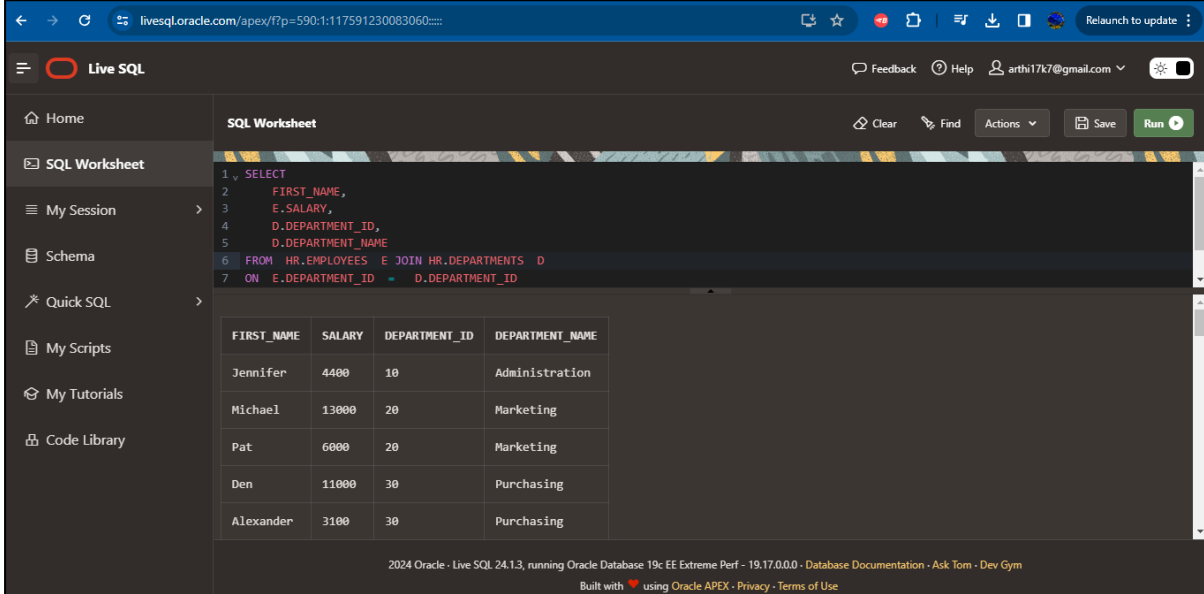
FIRST_NAME, SALARY, DEPARTMENT_ID, DEPARTMENT_NAME

1.Without Join:


```

1 SELECT
2   E.FIRST_NAME,
3   E.SALARY,
4   D.DEPARTMENT_ID,
5   D.DEPARTMENT_NAME
6 FROM HR.EMPLOYEES E,HR.DEPARTMENTS D
7 WHERE E.DEPARTMENT_ID = D.DEPARTMENT_ID
  
```

FIRST_NAME	SALARY	DEPARTMENT_ID	DEPARTMENT_NAME
Jennifer	4400	10	Administration
Michael	13000	20	Marketing
Pat	6000	20	Marketing
Den	11000	30	Purchasing
Alexander	3100	30	Purchasing

2. Join


```

1 SELECT
2   FIRST_NAME,
3   E.SALARY,
4   D.DEPARTMENT_ID,
5   D.DEPARTMENT_NAME
6 FROM HR.EMPLOYEES E JOIN HR.DEPARTMENTS D
7 ON E.DEPARTMENT_ID = D.DEPARTMENT_ID
  
```

FIRST_NAME	SALARY	DEPARTMENT_ID	DEPARTMENT_NAME
Jennifer	4400	10	Administration
Michael	13000	20	Marketing
Pat	6000	20	Marketing
Den	11000	30	Purchasing
Alexander	3100	30	Purchasing

3. Left Join:

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```
1. SELECT
2.     FIRST_NAME,
3.     E.SALARY,
4.     D.DEPARTMENT_ID,
5.     D.DEPARTMENT_NAME
6. FROM   HR.EMPLOYEES E LEFT JOIN HR.DEPARTMENTS D
7. ON     E.DEPARTMENT_ID = D.DEPARTMENT_ID
```

The results table displays the following data:

FIRST_NAME	SALARY	DEPARTMENT_ID	DEPARTMENT_NAME
Jennifer	4400	10	Administration
Michael	13000	20	Marketing
Pat	6000	20	Marketing
Den	11000	30	Purchasing
Alexander	3100	30	Purchasing

Footer text: 2024 Oracle - Live SQL 24.1.3, running Oracle Database 19c EE Extreme Perf - 19.17.0.0.0 - Database Documentation - Ask Tom - Dev Gym
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4. Left Join using (+)

The screenshot shows the Oracle Live SQL interface. The SQL Worksheet contains the following query:

```
1. SELECT
2.     FIRST_NAME,
3.     E.SALARY,
4.     D.DEPARTMENT_ID,
5.     D.DEPARTMENT_NAME
6. FROM   HR.EMPLOYEES E, HR.DEPARTMENTS D
7. WHERE  E.DEPARTMENT_ID = D.DEPARTMENT_ID (+)
```

The results table displays the following data:

FIRST_NAME	SALARY	DEPARTMENT_ID	DEPARTMENT_NAME
Jennifer	4400	10	Administration
Michael	13000	20	Marketing
Pat	6000	20	Marketing
Den	11000	30	Purchasing
Alexander	3100	30	Purchasing

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5. Right Join

The screenshot shows the Live SQL interface with a SQL Worksheet. The query is a Right Join between HR.EMPLOYEES (E) and HR.DEPARTMENTS (D) on the DEPARTMENT_ID column. The results table shows 5 rows of data.

```
1 SELECT
2   FIRST_NAME,
3   E.SALARY,
4   D.DEPARTMENT_ID,
5   D.DEPARTMENT_NAME
6 FROM   HR.EMPLOYEES E RIGHT JOIN HR.DEPARTMENTS D
7        ON E.DEPARTMENT_ID = D.DEPARTMENT_ID
```

FIRST_NAME	SALARY	DEPARTMENT_ID	DEPARTMENT_NAME
Jennifer	4400	10	Administration
Michael	13000	20	Marketing
Pat	6000	20	Marketing
Den	11000	30	Purchasing
Alexander	3100	30	Purchasing

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6. Full Join using (+):

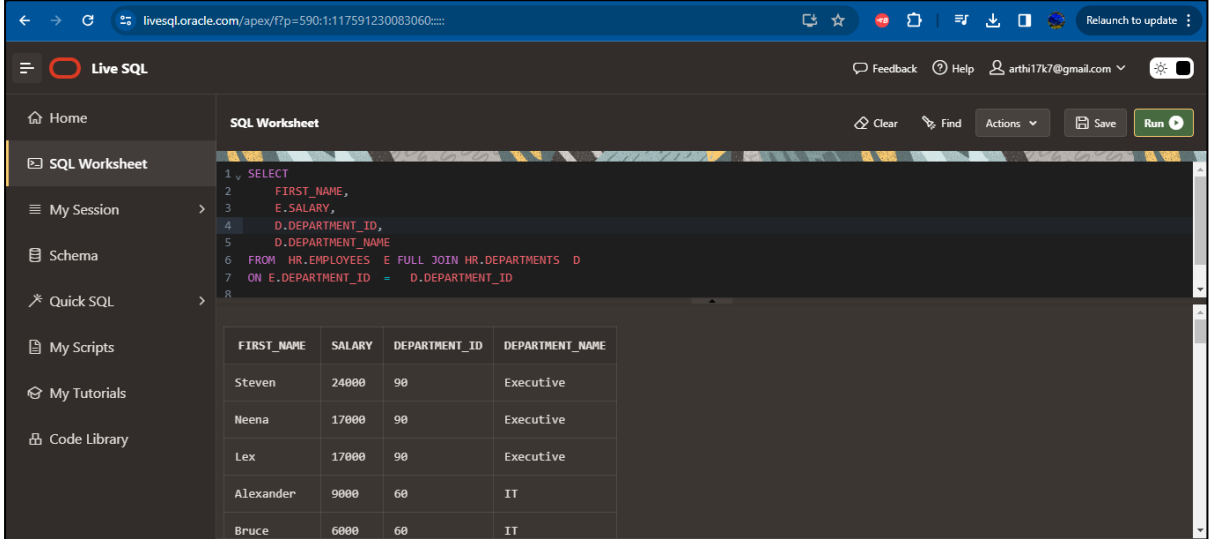
The screenshot shows the Live SQL interface with a SQL Worksheet. The query is a Full Join between HR.EMPLOYEES (E) and HR.DEPARTMENTS (D) on the DEPARTMENT_ID column using the (+) operator. The results table shows 5 rows of data.

```
1 SELECT
2   FIRST_NAME,
3   E.SALARY,
4   D.DEPARTMENT_ID,
5   D.DEPARTMENT_NAME
6 FROM   HR.EMPLOYEES E,HR.DEPARTMENTS D
7        WHERE E.DEPARTMENT_ID (+) = D.DEPARTMENT_ID
8
```

FIRST_NAME	SALARY	DEPARTMENT_ID	DEPARTMENT_NAME
Jennifer	4400	10	Administration
Michael	13000	20	Marketing
Pat	6000	20	Marketing
Den	11000	30	Purchasing
Alexander	3100	30	Purchasing

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7. Full join:



The screenshot shows the Live SQL interface with a SQL Worksheet. The query executed is a Full Join between HR.EMPLOYEES and HR.DEPARTMENTS on DEPARTMENT_ID. The results table displays the following data:

FIRST_NAME	SALARY	DEPARTMENT_ID	DEPARTMENT_NAME
Steven	24000	90	Executive
Meena	17000	90	Executive
Lex	17000	90	Executive
Alexander	9000	60	IT
Bruce	6000	60	IT