

```

1  MAREESWARAN G
2      DAY 15
3
4  CREATE TABLE EMP
5  AS
6  SELECT FIRST_NAME, LAST_NAME, JOB_ID, SALARY
7  FROM HR.EMPLOYEES
8
9  SELECT * FROM EMP
10
11 CREATE INDEX ISALARY ON EMP(SALARY)
12
13 SELECT SALARY
14 FROM EMP
15 WHERE SALARY > 10000
16

```

SALARY
10500
10500
11000
11000
11000
11500
12000
12000
12000
13000
13500
14000
17000
17000
24000

```
19 2.CREATE INDEX NAME_SALARY ON EMP(FIRST_NAME, SALARY)
20
21 SELECT
22     FIRST_NAME,
23     SALARY
24 FROM
25     EMP
26 WHERE
27     SALARY BETWEEN 8000 AND 10000
28
```

FIRST_NAME	SALARY
Adam	8200
Alexander	9000
Allan	9000
Alyssa	8800
Christopher	8000
Daniel	9000
Danielle	9500
David	9500
Harrison	10000
Hermann	10000

```

30 2. PSEUDO COLUMNS
31
32 ROWNUM
33 =====
34 SELECT
35     ROWNUM,
36     D.DEPARTMENT_NAME
37 FROM
38     HR.DEPARTMENTS D
39 WHERE
40     26008 < (
41         SELECT SUM(SALARY)
42         FROM HR.EMPLOYEES E
43         WHERE E.DEPARTMENT_ID = D.DEPARTMENT_ID
44     )
45
46

```

ROWNUM	DEPARTMENT_NAME
1	Shipping
2	IT
3	Sales
4	Executive
5	Finance

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5 rows selected.

```

16
17  USER
18  ====
19  SELECT USER, E.FIRST_NAME, E.SALARY
20  FROM HR.EMPLOYEES E
21  WHERE DEPARTMENT_ID IN (
22  SELECT D.DEPARTMENT_ID
23  FROM HR.DEPARTMENTS D
24  WHERE DEPARTMENT_ID IN (10, 20, 30)
25
26 )
27

```

USER	FIRST_NAME	SALARY
APEX_PUBLIC_USER	Jennifer	4400
APEX_PUBLIC_USER	Michael	13000
APEX_PUBLIC_USER	Pat	6000
APEX_PUBLIC_USER	Den	11000
APEX_PUBLIC_USER	Alexander	3100
APEX_PUBLIC_USER	Shelli	2900
APEX_PUBLIC_USER	Sigal	2800
APEX_PUBLIC_USER	Guy	2600
APEX_PUBLIC_USER	Karen	2500

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9 rows selected.

```

60 SELECT
61 FIRST_NAME || LAST_NAME "FULL NAME",
62 SALARY,
63 JOB_ID,
64 RANK() OVER (ORDER BY SALARY) "RANK"
65
66 FROM
67 HR. EMPLOYEES
68
69 WHERE
70 SALARY BETWEEN 10000 AND 12000

```

FULL NAME	SALARY	JOB_ID	RANK
JanetteKing	10000	SA_REP	1
HarrisonBloom	10000	SA_REP	1
HermannBaer	10000	PR_REP	1
PeterTucker	10000	SA_REP	1
Claravishney	10500	SA_REP	5
Elenizlotkey	10500	SA_MAN	5
EllenAbel	11000	SA_REP	7
GeraldCambrault	11000	SA_MAN	7
DenRaphaely	11000	PU_MAN	7
LisaOzer	11500	SA_REP	10
AlbertoErrazuriz	12000	SA_MAN	11

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```

91 SELECT
92 E.FIRST_NAME,
93 D.DEPARTMENT_NAME,
94 L.CITY,
95 DENSE_RANK() OVER (ORDER BY L.CITY DESC) "RANK"
96 FROM
97 HR. EMPLOYEES E,
98 HR.DEPARTMENTS D,
99 HR. LOCATIONS L
100 WHERE
101 E.DEPARTMENT_ID = D.DEPARTMENT_ID
102 AND D.LOCATION_ID = L.LOCATION_ID
103

```

FIRST_NAME	DEPARTMENT_NAME	CITY	RANK
Michael	Marketing	Toronto	1
Pat	Marketing	Toronto	1
David	IT	Southlake	2
Bruce	IT	Southlake	2
Valli	IT	Southlake	2
Diana	IT	Southlake	2
Alexander	IT	Southlake	2
Shanta	Shipping	South San Francisco	3
Alana	Shipping	South San Francisco	3
Matthew	Shipping	South San Francisco	3
Mozhe	Shipping	South San Francisco	3