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Base de Datos II**



**Práctica 11. Práctica sobre vistas**

1.-

The screenshot shows a database interface with three tabs at the top: 'console\_1 [hr]', 'EMPVU80 [hr]' (which is selected), and 'console [hr]'. Below the tabs are standard navigation icons like back, forward, search, and refresh. The main area displays a table with columns 'EMPLOYEE\_ID', 'LAST\_NAME', and 'SALARY'. The data is ordered by 'EMPLOYEE\_ID'. A tooltip indicates there are '34 rows' in the table.

	EMPLOYEE_ID	LAST_NAME	SALARY
1	145	Russell	14000.00
2	146	Partners	13500.00
3	147	Errazuriz	12000.00
4	148	Cambrault	11000.00
5	149	Zlotkey	10500.00
6	150	Tucker	10000.00
7	151	Bernstein	9500.00
8	152	Hall	9000.00

2.-

The screenshot shows a database interface with a query editor containing the SQL command 'SELECT \* FROM empvu80;'. The results are displayed in a table below, which is identical to the one in the previous screenshot. The table has columns 'EMPLOYEE\_ID', 'LAST\_NAME', and 'SALARY'. The data is ordered by 'EMPLOYEE\_ID'. A tooltip indicates there are '34 rows' in the table. The execution time for the query is shown as 62 ms.

	EMPLOYEE_ID	LAST_NAME	SALARY
1	145	Russell	14000.00
2	146	Partners	13500.00
3	147	Errazuriz	12000.00
4	148	Cambrault	11000.00
5	149	Zlotkey	10500.00
6	150	Tucker	10000.00
7	151	Bernstein	9500.00

3.-

console\_1 [hr] SALVU50 [hr] EMPVU80 [hr] EMPVU80 [hr]

WHERE ORDER BY

	ID_NUMBER	NAME	ANN_SALARY
1	120	Weiss	96000
2	121	Fripp	98400
3	122	Kaufling	94800
4	123	Vollman	78000
5	124	Mourgos	69600
6	125	Nayer	38400
7	126	Mikkilineni	32400
8	127	Landry	28800
9	128	Markle	26400
10	129	Bissot	39600
11	130	Atkinson	33600

45 rows :

38 ms

90 ms

70 ms

ID_NUMBER	NAME	ANN_SALARY
120	Weiss	96000
121	Fripp	98400
122	Kaufling	94800
123	Vollman	78000
124	Mourgos	69600
125	Nayer	38400
126	Mikkilineni	32400
127	Leverett	62000

4.-

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```
CREATE OR REPLACE VIEW empvu80 (id_number, name, sal, dept_id)
AS
SELECT id_number employee_id, name first_name || ' ' || last_name,
       sal salary, dept_id department_id
FROM employees
WHERE department_id = 80;
```



Output HR.SALVU50

```
salary, department_id
FROM employees
WHERE department_id = 80
```

[2026-02-16 11:43:53] completed in 69 ms

console\_1 [hr] × EMPVU80 [hr]

```
20 CREATE OR REPLACE VIEW empvu80 (id_number, name, sal, dept_id)
24   FROM employees
25   WHERE department_id = 80;
26
27 ✓  SELECT * FROM empvu80;
```

Output HR.EMPVU80

ID_NUMBER	NAME	SAL	DEPT_ID
1	John Russell	14000.00	80
2	Karen Partners	13500.00	80
3	Alberto Errazuriz	12000.00	80
4	Gerald Cambrault	11000.00	80
5	Eleni Zlotkey	10500.00	80
6	Peter Tucker	10000.00	80
7	David Bernstein	9500.00	80
8	Peter Hall	9000.00	80
34 rows			

5.-

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The screenshot shows a MySQL command-line interface window. The title bar includes tabs for 'console\_1 [hr]' and 'DEPARTMENT\_SUM\_VU [hr]'. The main area displays the following SQL code:

```
CREATE VIEW department_sum_vu(name,minsal,maxsal,avgsal)
WHERE e.DEPARTMENT_ID = d.DEPARTMENT_ID
GROUP BY d.department_name;
SELECT * FROM department_sum_vu;
```

The code consists of two parts: a CREATE VIEW statement and a SELECT statement. The first part creates a view named 'department\_sum\_vu' that selects four columns: 'name', 'minsal', 'maxsal', and 'avgsal'. It filters the results by matching the 'DEPARTMENT\_ID' from the 'employees' table ('e') with the 'DEPARTMENT\_ID' from the 'departments' table ('d'). The second part of the code, starting with 'SELECT \* FROM department\_sum\_vu;', is currently being typed into the command line.

6.-

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```
CREATE OR REPLACE VIEW department_sum_vu(name,minsal,maxsal,avgsal)
  SELECT name d.department_name,
         minsal MIN(e.salary),
         maxsal MAX(e.salary),
         avgsal TRUNC (AVG(e.salary), 2)
    FROM EMPLOYEES e, departments d
   WHERE e.DEPARTMENT_ID = d.DEPARTMENT_ID
  GROUP BY d.department_name
 ORDER BY d.DEPARTMENT_NAME;
```

The screenshot shows the Oracle SQL Developer interface. At the top, there are three tabs: 'console\_1 [hr]', 'DEPARTMENT\_SUM\_VU [hr]', and 'EMPVU80 [hr]'. Below the tabs is a toolbar with various icons. The main area contains two SQL statements:

```
44  SELECT * FROM department_sum_vu
45  ORDER BY avgsal ASC;
46
47 ✓  SELECT * FROM department_sum_vu
```

On the right side, there is a status bar showing 'HR' and some icons. The bottom part of the screen shows the 'Output' tab for the 'HR.DEPARTMENT\_SUM\_VU' view, displaying a table with the following data:

	NAME	MINSAL	MAXSAL	AVGSAL
1	Accounting	8300	12008	10154
2	Administration	4400	4400	4400
3	Executive	17000	24000	19333.33
4	Finance	6900	12008	8601.33
5	Human Resources	6500	6500	6500
6	IT	4200	9000	5760
7	Marketing	6000	13000	9500
8	Public Relations	10000	10000	10000
9	Purchasing	2500	11000	4150

7.-

```
CREATE OR REPLACE VIEW empvu20
AS
  SELECT * FROM EMPLOYEES
 WHERE DEPARTMENT_ID = 20
WITH CHECK OPTION CONSTRAINT empvu20_ck;
```

The screenshot shows the Oracle SQL Developer interface. At the top, there are three tabs: 'console\_1 [hr]', 'DEPARTMENT\_SUM\_VU [hr]', and 'EMPVU80 [hr]'. Below the tabs is a toolbar with various icons. The main area contains the SQL statement for creating the view 'empvu20':

```
CREATE OR REPLACE VIEW empvu20
AS
  SELECT * FROM EMPLOYEES
 WHERE DEPARTMENT_ID = 20
WITH CHECK OPTION CONSTRAINT empvu20_ck;
```

On the right side, there is a status bar showing 'HR' and some icons. The bottom part of the screen shows the 'Output' tab for the 'HR.DEPARTMENT\_SUM\_VU' view, displaying the following message:

[2026-02-16 12:04:29] completed in 37 ms

8.-

```
CREATE OR REPLACE VIEW empvu10(employee_number, employee_name, job_title)
AS SELECT employee_number employee_id,
          employee_name last_name,
          job_title JOB_ID
FROM EMPLOYEES WHERE DEPARTMENT_ID = 10
WITH READ ONLY;
```

VU 504 ms

```
Output HR.DEPARTMENT_SUM_VU
SELECT * FROM department_sum_vu
          JOB_ID
FROM EMPLOYEES WHERE DEPARTMENT_ID = 10
WITH READ ONLY
[2026-02-16 12:06:42] completed in 27 ms
```

9.

```
DROP VIEW empvu80;
```

VU 504 ms

```
Output HR.DEPARTMENT_SUM_VU
          FROM EMPLOYEES WHERE DEPARTMENT_ID = 10
WITH READ ONLY
[2026-02-16 12:06:42] completed in 27 ms
[2026-02-16 12:08:36] HR> DROP VIEW empvu80
[2026-02-16 12:08:36] completed in 86 ms
```