



### Práctica #12. Vistas en Oracle 11g

**Instrucciones:** Cree las siguientes consultas. Incluya, para cada ejercicio, el comando SQL que generó, así como una captura de pantalla del resultado.

1. Cree una vista llamada EMPLOYEES\_VU que muestre el número de empleado, apellido del empleado y el número de departamento de todos los empleados de la tabla EMPLOYEES. Nombre a la columna del apellido del empleado a “EMPLOYEE”.

```
CREATE OR REPLACE VIEW
    EMPLOYEES_VU
AS
    SELECT e.EMPLOYEE_ID, e.LAST_NAME as Employee, e.DEPARTMENT_ID
    FROM employees e;

SELECT * FROM EMPLOYEES_VU
```

2. Visualice el contenido de la vista EMPLOYEES\_VU.

	EMPLOYEE_ID	EMPLOYEE	DEPARTMENT_ID
1	100	King	90
2	101	Kochhar	90
3	102	De Haan	90
4	103	Hunold	60
5	104	Ernst	60
6	105	Austin	60
7	106	Pataballa	60
8	107	Lorentz	60
9	108	Greenberg	100
10	109	Faviet	100
11	110	Chen	100
12	111	Sciarra	100
13	112	Urman	
14	113	Popp	

3. Visualice la estructura de la tabla USER\_VIEWS con el comando DESCRIBE. Posteriormente, seleccione la columna del nombre de la vista y el texto de la vista de la tabla USER\_VIEWS.

```
DESCRIBE USER_VIEWS;
```

```

1 -- auto-generated definition
2 create view USER_VIEWS
3     (VIEW_NAME, TEXT_LENGTH, TEXT, TYPE_TEXT_LENGTH, TYPE_TEXT, OID_TEXT_LENGTH, OID_TEXT, VIEW_TYPE_OWNER,
4      VIEW_TYPE, SUPERVIEW_NAME, EDITIONING_VIEW, READ_ONLY)
5
6 as
7 -- missing source code
8 /

```

The screenshot shows the Oracle SQL Developer interface. The top pane displays the SQL command: DESCRIBE USER\_VIEWS;. The bottom pane shows the results of the DESCRIBE command, which includes the create view statement and a note about missing source code. Below the results, there is a table titled 'SYS.USER\_VIEWS' with columns: VIEW\_NAME, TEXT\_LENGTH, TEXT, and TYPE\_TEXT. The table contains five rows of data.

VIEW_NAME	TEXT_LENGTH	TEXT	TYPE_TEXT
EMP_DETAILS_VIEW	538	SELECT e.employee_id, e.job_id...	
SALVU50	124	SELECT employee_id ID_NUMB...	
DEPARTMENT_SUM_VU	239	SELECT d.department_name, ...	
EMPVU20	263	SELECT "EMPLOYEE_ID", "FIRST_NAME", ...	
EMPVU10	...	employee_id, first_name, last...	

4. Utilizando la vista EMPLOYEES\_VU, cree una consulta para mostrar todos los nombres de empleado y los números de departamento.

```

CREATE OR REPLACE VIEW
    EMPLOYEES_VU
AS
    SELECT e.LAST_NAME || ' ' || e.FIRST_NAME as full_name,
e.DEPARTMENT_ID
    FROM EMPLOYEES e;

SELECT * FROM EMPLOYEES_VU

```

5. Cree una vista llamada DEPT\_50 que contenga los números de empleado, los apellidos, y los números de departamento para todos los empleados del departamento 50. Etiquete las columnas de la vista como EMPNO, EMPLOYEE y DEPTNO. No permita que se modifique el departamento del empleado a través de la vista.

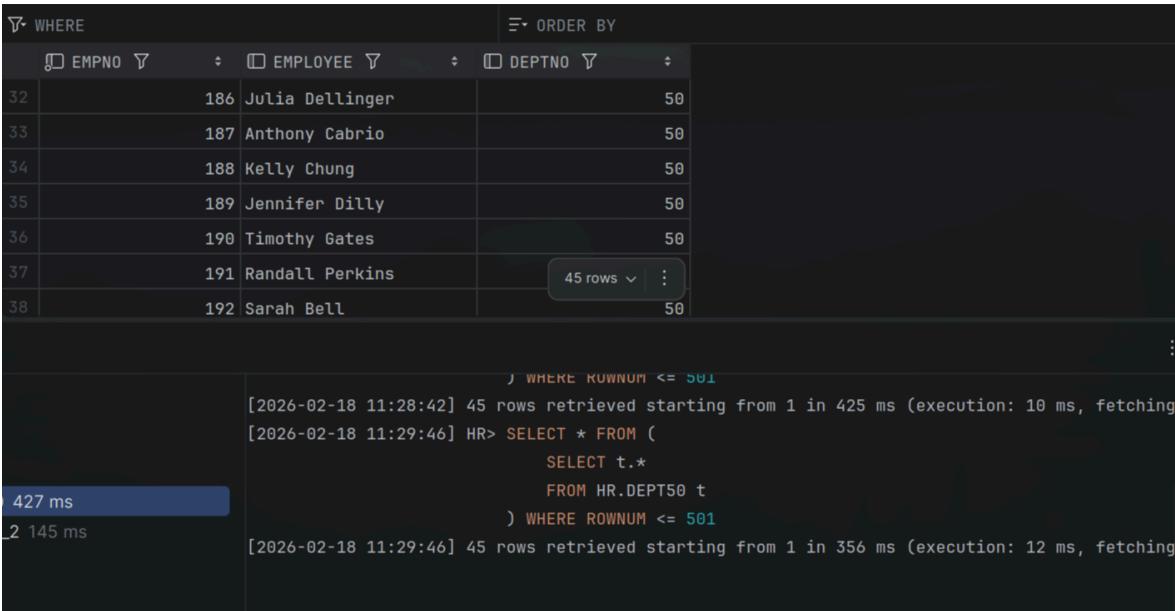
```
CREATE OR REPLACE VIEW DEPT50(EMPNO, EMPLOYEE, DEPTNO)
AS SELECT
    EMPNO employee_id,
    EMPLOYEE FIRST_NAME || ' ' || LAST_NAME,
    DEPTNO DEPARTMENT_ID
FROM EMPLOYEES
WHERE DEPARTMENT_ID = 50
WITH CHECK OPTION CONSTRAINT DEPT50_ck;
```



The screenshot shows the Oracle SQL Developer interface. The SQL worksheet contains the creation of the DEPT50 view, which selects columns from the EMPLOYEES table where the department ID is 50. The output window shows the executed query and its completion time of 26 ms.

```
FIRST_NAME || ' ' || LAST_NAME,
DEPARTMENT_ID
FROM EMPLOYEES
WHERE DEPARTMENT_ID = 50
WITH CHECK OPTION CONSTRAINT DEPT50_ck
[2026-02-18 11:42:22] completed in 26 ms
```

6. Visualice la estructura y contenidos de la vista DEPT\_50.



The screenshot shows the Oracle SQL Developer interface. A query is run against the DEPT50 view, displaying 45 rows. The results are shown in a grid format with columns labeled EMPNO, EMPLOYEE, and DEPTNO. The output window shows the execution and fetch times for the query.

EMPNO	EMPLOYEE	DEPTNO
32	186 Julia Dellinger	50
33	187 Anthony Cabrio	50
34	188 Kelly Chung	50
35	189 Jennifer Dilly	50
36	190 Timothy Gates	50
37	191 Randall Perkins	50
38	192 Sarah Bell	50

J WHERE ROWNUM <= 501  
[2026-02-18 11:28:42] 45 rows retrieved starting from 1 in 425 ms (execution: 10 ms, fetching:  
[2026-02-18 11:29:46] HR> SELECT \* FROM (
 SELECT t.\*  
 FROM HR.DEPT50 t
) WHERE ROWNUM <= 501  
[2026-02-18 11:29:46] 45 rows retrieved starting from 1 in 356 ms (execution: 12 ms, fetching:

7. Intente reasignar al empleado de apellido “Matos” al departamento 80 a través de la vista DEPT\_50. ¿Cuál es el resultado?

The screenshot shows an Oracle SQL Developer interface. At the top, there is an error message: [44000][1402] ORA-01402: view WITH CHECK OPTION where-clause violation. Below the message is a link to the Oracle documentation: https://docs.oracle.com/error-help/db/ora-01402/. A note says "Position: 7". On the left, there is a timeline showing two events: one at 427 ms and another at 2 81 ms. On the right, under the "Output" tab, there is a log entry: SET DEPTNO = 80 WHERE EMPLOYEE = 'Matos'. Below this, the error message is repeated along with the documentation link and position information.

```
[44000][1402]
ORA-01402: view WITH CHECK OPTION where-clause violation
https://docs.oracle.com/error-help/db/ora-01402/
Position: 7

[2026-02-18 11:52:15] [44000][1402]
[2026-02-18 11:52:15] ORA-01402: view WITH CHECK OPTION where-clause violation
[2026-02-18 11:52:15] https://docs.oracle.com/error-help/db/ora-01402/
[2026-02-18 11:52:15] Position: 7
```

No funciona porque se deshabilitaron los comandos que pueden actualizar o modificar una tabla.

8. Cree una vista llamada SALARY\_VU basándose en el apellido del empleado, nombre del departamento, salario y cargo de todos los empleados. Utilice las tablas EMPLOYEES y DEPARTMENTS. Etiquete a las columnas “Employee”, “Department”, “Salary” y “Job”, respectivamente.

```
CREATE OR REPLACE VIEW
    SALARY_VU (employee, department, salary, job)
AS
    SELECT e.LAST_NAME, d.DEPARTMENT_NAME, e.SALARY, e.JOB_ID
    FROM EMPLOYEES e, DEPARTMENTS d
    WHERE e.DEPARTMENT_ID = d.DEPARTMENT_ID;
```

		DEPARTMENT	SALARY	JOB	
1	Whalen	Administration	4400.00	AD_ASST	
2	Hartstein	Marketing	13000.00	MK_MAN	
3	Fay	Marketing	6000.00	MK_REP	
4	Raphaely	Purchasing	11000.00	PU_MAN	
5	Khoo	Purchasing	3100.00	PU_CLERK	
6	Baida	Purchasing	2900.00	PU_CLERK	
7	Tobias	Purchasing	2800.00	PU_CLERK	
8	Himuro	Purchasing	2600.00	PU_CLERK	
9	Colmenares	Purchasing	2500.00	PU_CLERK	
10	Mavris	Human Resources	6500.00	HR REP	
11	Weiss	Shipping	8000.00	ST MAN	
12	Fripp	Shipping	8200.00	ST MAN	
13	Kaufling	Shipping	7000.00	ST MAN	
14	Vollman	Shipping			106 rows ▾
15	Mourgos	Shipping	5800.00	ST MAN	:

9. Ejecute la siguiente consulta: CREATE TABLE depas AS SELECT \* FROM departments;

```
CREATE TABLE depas AS SELECT * FROM departments;
```

s

Output

SALARY\_VU

```
[2026-02-18 11:34:24] HR> CREATE TABLE depas AS SELECT * FROM departments
[2026-02-18 11:34:24] 27 rows affected in 74 ms
```

10. Visualice la estructura y los datos de la tabla DEPAS.

**Data Source:** hr  
**Schema:** HR  
**Table:** DEPAS

```
-- auto-generated definition
create table DEPAS
(
    DEPARTMENT_ID    NUMBER(4),
    DEPARTMENT_NAME  VARCHAR2(30) not null,
    MANAGER_ID       NUMBER(6),
    LOCATION_ID      NUMBER(4)
)
/
```

Show table preview

	DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
1	10	Administration	200	1700
2	20	Marketing	201	1800
3	30	Purchasing	114	1700
4	40	Human Resources	203	2400
5	50	Shipping	121	1500
6	60	IT	103	1400
7	70	Public Relations	204	2700
8	80	Sales	145	2500
9	90	Executive	100	1700
10	100	Finance	108	1700
11	110	Accounting	205	1700
12	120	Treasury	<null>	1700
13	130	Corporate Tax	<null>	1700
14	140	Control And Credit	<null>	1700
15	150	Shareholder Services	<null>	1700
16	160	Benefits	<null>	1700
17	170	Manufacturing	<null>	1700
18	180	Construction	<null>	1700
19	190	Contracting	<null>	1700
20	200	Operations	<null>	1700

11. Cree una vista nueva llamada V\_DEPAS que muestre todos los datos de la tabla DEPAS. No permita aplicar ningún DML sobre los datos de la vista.

```
CREATE OR REPLACE VIEW
    V_DEPAS
AS
    SELECT *
    FROM DEPAS
    WITH READ ONLY;
```

12. Elimine la tabla DEPAS (con el comando DROP TABLE) y seleccione los datos de la vista V\_DEPAS. ¿Cuál es el resultado?

```
DROP TABLE DEPAS;
SELECT * FROM V_DEPAS;
[2026-02-18 11:44:56] HR> SELECT * FROM V_DEPAS
[2026-02-18 11:44:56] [72000][4063]
[2026-02-18 11:44:56]    ORA-04063: view "HR.V_DEPAS" has errors
[2026-02-18 11:44:56]    https://docs.oracle.com/error-help/db/ora-04063/
[2026-02-18 11:44:56] Position: 14
```

No funciona porque la vista V\_DEPAS está intentando obtener los registros de la tabla que acabamos de borrar.