

EXERCISE 11 CREATING VIEWS

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1. Create a view called EMPLOYEE_VU based on the employee numbers, employee names and department numbers from the EMPLOYEES table. Change the heading for the employee name to EMPLOYEE.

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User: SYSTEM

Home > SQL > **SQL Commands**

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```
CREATE OR REPLACE VIEW employee_vu (employee_number, employee, department_number)
AS SELECT employee_id, first_name || ' ' || last_name, department_id
FROM employees;
```

Results Explain Describe Saved SQL History

View created.

0.04 seconds

2. Display the contents of the EMPLOYEES_VU view.

User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT * FROM employee_vu;
```

Results Explain Describe Saved SQL History

EMPLOYEE_NUMBER	EMPLOYEE	DEPARTMENT_NUMBER
100	Steven King	90
101	Neena Kochhar	90
102	Lex De Haan	90

3 rows returned in 0.00 seconds

[CSV Export](#)

3. Select the view name and text from the USER_VIEWS data dictionary views.

User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT view_name, text
FROM user_views
WHERE view_name = 'EMPLOYEE_VU';
```

Results Explain Describe Saved SQL History

VIEW_NAME	TEXT
EMPLOYEE_VU	SELECT employee_id, first_name ' ' last_name, department_id FROM employees

1 rows returned in 0.00 seconds

[CSV Export](#)

- Using your EMPLOYEE_VU view, enter a query to display all employees names and department.

User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT employee, department_number
FROM employee_vu;
```

Results Explain Describe Saved SQL History

EMPLOYEE	DEPARTMENT_NUMBER
Steven King	90
Neena Kochhar	90
Lex De Haan	90

3 rows returned in 0.00 seconds

[CSV Export](#)

5. Create a view named DEPT50 that contains the employee number, employee last names and department numbers for all employees in department 50. Label the view columns EMPNO, EMPLOYEE and DEPTNO. Do not allow an employee to be reassigned to another department through the view.

User: SYSTEM

Home > SQL > SQL Commands

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```
CREATE OR REPLACE VIEW dept50 (empno, employee, deptno)
AS SELECT employee_id, last_name, department_id
FROM employees
WHERE department_id = 50
WITH CHECK OPTION CONSTRAINT dept50_ck;
```

Results Explain Describe Saved SQL History

View created.

0.02 seconds

6. Display the structure and contents of the DEPT50 view.

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Home > SQL > [SQL Commands](#)

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```
DESCRIBE dept50;
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

Object Type **VIEW** Object **DEPT50**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPT50	EMPNO	Number	-	-	0	-	✓	-	-
	EMPLOYEE	Varchar2	50	-	-	-	✓	-	-
	DEPTNO	Number	-	-	0	-	✓	-	-
									1 - 3

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☒ Autocommit Display

```
SELECT * FROM dept50;
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

EMPNO	EMPLOYEE	DEPTNO
999	Matos	50

1 rows returned in 0.00 seconds

[CSV Export](#)

7. Attempt to reassign Matos to department 80.

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10 ▼

```
UPDATE employees  
SET department_id = 80  
WHERE last_name = 'Matos';
```

Results Explain Describe Saved SQL History

1 row(s) updated.

0.00 seconds

8. Create a view called SALARY_VU based on the employee last names, department names, salaries, and salary grades for all employees. Use the Employees, DEPARTMENTS and JOB_GRADE tables. Label the column Employee, Department, salary, and Grade respectively.

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10 ▼

```
CREATE OR REPLACE VIEW salary_vu (employee, department, salary, grade)
AS SELECT e.last_name,
          d.department_name,
          e.salary,
          j.grade_level |
FROM employees e
JOIN departments d ON e.department_id = d.department_id
JOIN job_grade j ON e.salary BETWEEN j.lowest_sal AND j.highest_sal;
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

View created.

0.02 seconds