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5. Views Ex. 5.
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In SQL, a view is a virtual table based on the result set of a SELECT statement. A view can be used to simplify complex queries, restrict access to sensitive data, and provide a level of abstraction between the underlying data and the user. They can be created from single or multiple tables, used in queries to retrieve data, updated to include new columns or calculations, and dropped when they are no longer needed.

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--First Create required tables.
CREATE TABLE employees
( emp id NUMBER(5), name VARCHAR2(25), department id NUMBER(5), salary
NUMBER (10,2));
CREATE TABLE departments
( department id NUMBER(5) PRIMARY KEY, dept name VARCHAR2(25) NOT
NULL);
-- Insert sample records
 SQL> INSERT INTO employees values(123, 'Vidya', 5, 56000.00);
 SQL> INSERT INTO employees values (234, 'Vijaya', 8, 45000.00);
 SQL> INSERT INTO employees values (456, 'Sumana', 3, 56000.00);
 SQL> INSERT INTO departments values (3, 'Accounts');
 SQL> INSERT INTO departments values (5, 'Accounts');
 SQL> INSERT INTO departments values(8, 'Marketing');
i) Creating a view:
CREATE VIEW emp view AS
SELECT emp id, name, salary
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FROM employees
WHERE salary > 50000;
In this example, we are creating a view called emp view that selects the
columns emp id, name, and salary from the employees table and restricts
the result set to only include employees with a salary greater than
50000.
Once the view is created, we can query it just like any other table.
SELECT * FROM emp view;
  ii) Creating a view from multiple tables:
CREATE VIEW emp details AS
SELECT emp id, name, dept name, salary
FROM employees
JOIN departments ON employees.department id = departments.department id;
In this example, we are creating a view called emp details that selects
the emp id, name, dept name, salary columns from the employees and
departments tables using a join. The view will appear to the user as a
single table, even though it is based on the result set of a join.
SELECT * FROM emp details
WHERE dept name='Accounts';
 Updating a view:
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CREATE OR REPLACE VIEW emp view AS

SELECT emp_id, emp_name, emp_salary * 1.1 AS emp_bonus

FROM employees;

In this example, we are updating the emp_view view to include a new calculated column called emp_bonus that is equal to 110% of the employee's salary.

Dropping a view:

In this example, we are dropping the emp_view view from the database.

DROP VIEW emp_view;