

# Database Programming with SQL 15-3: Managing Views Practice Activities Objectives

- Create and execute a query that removes a view
- Create and execute a guery using an inline view
- Create and execute a top-n-analysis query

#### Vocabulary

Identify the vocabulary word for each definition below.

Asks for the N largest or smallest values in a column		
Removes a view		
Subquery with an alias that can be used within a SQL statement		

## Try It / Solve It

- 1. Create a view from the copy\_d\_songs table called view\_copy\_d\_songs that includes only the title and artist. Execute a SELECT \* statement to verify that the view exists.
- 2. Issue a DROP view\_copy\_d\_songs. Execute a SELECT \* statement to verify that the view has been deleted.
- 3. Create a query that selects the last name and salary from the Oracle database. Rank the salaries from highest to lowest for the top three employees.
- 4. Construct an inline view from the Oracle database that lists the last name, salary, department ID, and maximum salary for each department. Hint: One query will need to calculate maximum salary by department ID.
- 5. Create a query that will return the staff members of Global Fast Foods ranked by salary from lowest to highest.

#### **Extension Exercises**

- Create a new table called my\_departments and add all columns and all rows to it using a subquery from the Oracle departments table. Do a SELECT \* from my\_departments to confirm that you have all the columns and rows.
- To view any constraints that may affect the my\_departments table, DESCRIBE my\_departments
  to check if any constraints were carried over from the departments table. If there are constraints
  on my\_departments, use an ALTER TABLE command to DISABLE all constraints on
  my\_departments.
- 3. Create a view called view\_my\_departments that includes: department\_id and department\_name.
- 4. Add the following data to the my\_departments table using view\_my\_departments.

department_id	department_name		
105	Advertising		
120	Custodial		
130	Planning		

- 5. Create or enable the department\_id column as the primary key.
- 6. Enter a new department named Human Resources into the my\_departments table using view\_my\_departments. Do not add a new department ID.
- 7. Add the Human Resources department, department ID 220, to my\_departments using view\_my\_departments.
- 8. Verify that the new additions to my\_departments were added using view\_my\_departments.

See chart below

- 9. Modify view\_my\_departments to include location ID. Do a SELECT \* command to show what columns are present and a DESCRIBE command to view the columns and associated constraints.
- 10. Make location\_id a NOT NULL column in the my\_departments table.
- 11. Using the Oracle database, create a complex view between locations and departments with only the following columns: department\_name, street\_address, city, and state. Include only U.S. cities. Verify that the view was created using a SELECT \* statement.

See chart below

Copyright © 2020, Ora	DEPARTMENT_ID	DEPARTMENT _NAME	MANAGER_ID	LOCATION_ID
	10	Administration	200	1700
	00	Moulcoting	204	4000

### Results of select statement from view:

Saved SQL History		
STREET_ADDRESS	CITY	STATE_PROVINCE
2014 Jabberwocky Rd	Southlake	Texas
2011 Interiors Blvd	South San Francisco	California
2004 Charade Rd	Seattle	Washington
2004 Charade Rd	Seattle	Washington
2004 Charade Rd	Seattle	Washington
2004 Charade Rd	Seattle	Washington
	STREET_ADDRESS  2014 Jabberwocky Rd  2011 Interiors Blvd  2004 Charade Rd  2004 Charade Rd  2004 Charade Rd	STREET_ADDRESS CITY  2014 Jabberwocky Rd Southlake  2011 Interiors Blvd South San Francisco  2004 Charade Rd Seattle  2004 Charade Rd Seattle  2004 Charade Rd Seattle

6 rows returned in 0.01 seconds Download