

Creating Views

Objectives

- List three uses for views from the standpoint of a database administrator
- Explain, from a business perspective, why it is important to be able to create and use logical subsets of data derived from one or more tables
- Create a view with and without column aliases in the subquery using a single base table
- Create a complex view that contains group functions to display values from two tables
- Retrieve data from a view

Vocabulary

Directions: Identify the vocabulary word for each definition below.

1. _____ a table of logical subsets or combinations of data based on a table or another view
2. _____ name of view
3. _____ creates a view regardless of whether or not the base tables exist
4. _____ derives data from a table, no functions or groups, performs DML operations through the view
5. _____ creates the view only if the base table exists
6. _____ creates a view by embedding a subquery within it
7. _____ specifies a name for each expression selected by the view's query
8. _____ a complete SELECT statement
9. _____ derives data from more than one table, contains functions or groups of data, and does not always allow DML operations through the view
10. _____ re-creates the view if it already exists

Try It / Solve It

1. What are three uses for a view from a DBA's perspective?

1. Create a simple view called `view_d_songs` that contains the ID, title and artist from the DJ on Demand table for each "New Age" type code. In the subquery, use the alias "Song Title" for the title column.

2. `SELECT * FROM view_d_songs`. What was returned?

3. REPLACE `view_d_songs`. Add `type_code` to the column list. Use aliases for all columns.

4. Jason Tsang, the disk jockey for DJ on Demand, needs a list of the past events and those planned for the coming months so he can make arrangements for each event's equipment setup. As the company manager, you do not want him to have access to the price that clients paid for their events. Create a view for Jason to use that displays the name of the event, the event date, and the theme description. Use aliases for each column name.

5. It is company policy that only upper-level management be allowed access to individual employee salaries. The department managers, however, need to know the minimum, maximum, and average salaries, grouped by department. Use the Oracle database to prepare a view that displays the needed information for department managers.