**15-1\_SQL\_Trushkova\_Creating\_Views**

A subset of data from one or more tables that is generated from a query and stored as a virtual table-VIEW

Name of view-VIEW\_NAME

Creates a view regardless of whether or not the base tables exist- FORCE

Derives data from a table, no functions or groups, performs DML operations through the view-SIMPLE VIEW

Creates the view only if the base table exists-NOFORCE

Statement used to create a new view- CREATE VIEW statement

Specifies a name for each expression selected by the view’s query-Alias

A complete SELECT statement-subquery

Derives data from more than one table, contains functions or groups of data, and does not always allow DML operations through the view-Complex View

Re-creates the view if it already exists-REPLACE

**Try it/Solve it**

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

* Ограничить зону видимости таблицы для пользователя
* Ограничить DML доступ к таблице, сделать only Reading
* Упростить запросы к таблице

1. Create a simple view called view\_d\_songs that contains the ID, title, and artist from the DJs 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?

A screenshot of a computer

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1. REPLACE view\_d\_songs. Add type\_code to the column list. Use aliases for all columns.

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1. Jason Tsang, the disk jockey for DJs 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.

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1. 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.

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