

EXERCISE 13

Creating Views

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

Data security and Access control
Simplifying complex queries
Data consistency and logical independence.

2. 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.

```
CREATE VIEW view_d_songs AS SELECT id, title AS "Song Title", artist  
FROM d_songs WHERE type_code = (SELECT id FROM d_types WHERE  
description = 'New Age');
```

3. SELECT * FROM view_d_songs. What was returned?

It will return the ID, title and artist for all songs that are of the 'New Age' type.

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

```
CREATE OR REPLACE VIEW view_d_songs (song_id, "song title", Artist,  
type_code) AS SELECT id, title, artist, type_code FROM d_songs  
WHERE type_code = (SELECT id FROM d_types WHERE  
description = 'New Age');
```

Or use alias after the CREATE statement as shown.

5. 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.

```
CREATE OR REPLACE VIEW jason_events_vu AS SELECT e.name AS  
"Event-Name", e.event_date AS "Event-Date", t.description AS "Theme"  
FROM d_events e  
JOIN d_themes t ON e.theme_code = t.code;
```

6. 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

```
CREATE OR REPLACE VIEW dept_salary_summary_vu AS  
SELECT department_id,  
MIN(salary) AS "Min-Salary",  
MAX(salary) AS "Max-Salary",  
AVG(salary) AS "Avg-Salary"  
FROM employees  
GROUP BY department_id;
```