Pate: 24/9/25

EXERCISE 13

AIM: TO Create Views in my SAL.

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

1. Security and Access Control (Pata Hiding). 2. Simulpation / durity 3. logical entre 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

oreste VIEW view_d_rong AS SELECTIA, TITLE As "Song Title" water From d - Nongs where Eype - code

SELECT * FROM view_d_songs. What was returned?

The database returned all the column and from them the days tongs type where the type code equals "New Age"

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

Greate OR Replace VIEW view -d-nords (song-cd) Many - table, rong - artist, rong - type) AS select tid little artist, type-code FROM +- longs where type-code= 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 for Jason to use that displays the name of the event, the event date, and the theme description. Use

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Create VIEW vilo - join wents (event - rame, event date thome dex) AS Select @ nome, & event - date, t. Shame - devoiption I ROM of - events & JOIN of themes to ON 2. there - code:

t. thome - 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.

Greate view view - dept-solory - summary (dept-nome)

min-rul, max-rul, my-rul) As select d. name, MIRTR rolongs

MAX(Q. rulory), AVG(Q. rulory) FR om 'd-employees Q J D IN

d-departments d DN Q. department-cd = d.idc Group

BY d. name,

DML Operations and Views

Use the DESCRIBE statement to verify that you have tables named copy_d_songs, copy_d_events, copy_d_cds, and copy_d_clients in your schema. If you don't, write a query to create a copy of each.

1. Query the data dictionary USER_UPDATABLE_COLUMNS to make sure the columns in the base tables will allow UPDATE, INSERT, or DELETE. All table names in the data dictionary are stored in uppercase.

Select table name, column name, apparatuable numericable FROM

WILL Syntable whomas table name IN ('COPY-D-SONGIS')

(OPY-D-EVENTS', VOPY-D-CDS', 'COPY-D-CIENTS')

Use the same syntax but change table_name of the other tables.

2. Use the CREATE or REPLACE option to create a view of all the columns in the copy_d_songs table called view_copy_d_songs.

Create or Replace VIEW view-copy-d-nones AS select it, tritle, dwardin, artist, type-code From copy-d-none;

Use view_copy_d_songs to INSERT the following data into the underlying copy_d_songs table.
 Execute a SELECT * from copy_d_songs to verify your DML command. See the graphic.

88	Mello Jello	DURATION	ARTIST	TYPE_CODE
71. 1			The What	4
- N 5 1	TNT	O VEEW-	dos. 1	04 11
1 - Fil	1111	1	worky a	- romer (id, title UES (88) mel
			11 11 11 11	500
.01.	2 1-1	The - con	Y) V/L	1 (88) mel
eno,	2, The book	at 4).		
		11/		
OMM	IT;			
CO MM			1	
		lahu 1	1	
		lopy - d	rong mil	ere il - 88.
	* FROM	lopy - d	rong mh	ere id = \$8;

Create a view based on the DJs on Demand COPY_D_CDS table. Name the view read_copy_d_cds. ect all columns to be incl. and the copy_d_cds. Select all columns to be included in the view. Add a WHERE clause to restrict the year to 2000. Add the create view read - copy - d- do As select & FROM copy-d-cds where year = 2000 WITH READ ONCY;

Using the read_copy_d_cds view, execute a DELETE FROM read_copy_d_cds WHERE cd_number
 90:

Delete FROM read-cary-d-de where cd-number-90

Use REPLACE to modify read_copy_d_cds. Replace the READ ONLY option with WITH CHECK OPTION CONSTRAINT ck_read_copy_d_cds. Execute a SELECT * statement to verify that the view exists.

Create OR Replace View road - copy -d-cds As select * FROM vory -d -chs where your = 2000 with Check oftion CONSTRATINT Ck-read - Loty -d - cds;

Use the read_copy_d_cds view to delete any CD of year 2000 from the underlying copy_d_cds.

Relete FROM read - copy -d - cos; (OM MITT;

8. Use the read_copy_d_cds view to delete cd_number 90 from the underlying copy_d_cds table.

Relete FROM great - copy - d - cos where cd - number = 90; COMMZT;

Use the read_copy_d_cds view to defete year 2001 records.

Delete FROM read - copy -d-cds where year = 2001;

10. Execute a SELECT * statement for the base table copy d cds. What rows were deleted? Select * F COM Copy - d - ch; The Tong with your = 2000

11. What are the restrictions on modifying data through a view?

The view of generally replacible 4 he new A dynamy

Overy Costain A Wregate Functions, GROUISY (LAUSE)
DISTINCT beyword, Corplex John, Set Harding and both red only
12. What is Moore's Law? Do you consider that it will continue to apply indefinitely? Support you consider that it will continue to apply indefinitely? Support you consider that it will continue to apply indefinitely?

Moore's law is the observation that the number of transitors in a done integrated circuit (IC) doubles explored imply every here gears most extents agree that moore's law, in it's traditional 13. What is the "singularity" in terms of computing?

Einquestily is term of computing: the term specifically refor to the bont where I. An AhI or when intellique is created . 2. The new intelligence as autonomously confirme itself at an aschonential rate.

Managing Views

Create a view from the copy_d_songs table called view_copy_d_songs that includes only the title
 and artist_Execute a SELECT.

and artist. Execute a SELECT * statement to verify that the view exists. the the leplace below new-copy-d- worgs As select title artest from copy-d-row, select & FROM new copy-d-rongs;

 Issue a DROP view_copy_d_songs. Execute a SELECT * statement to verify that the view has been deleted. deleted.

prop view view - copy - d-ross;

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Select * FROM view-copy -d-norge;

 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.

Select 1_ mane, Mary, RANFO OVER (ORDER BY Solary DESC) as wary - mank FROM employees when Rank O over Corder By warz DESC) <= 3

Select 1- nome, ratary, rulary-rank From (select 1-rome, Anlary, RANK () OVER (ORDER BY relary DESC) as relary-runt

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

Select & 1 - none, e rul, e dept - id, d-mar. mar-dept rating F & om employees e TOIN (select dept - id, MMX (rulong) AS Max Nent . July FROM amployees CrROUP By dest - id) d - mez ON e. Ment is = d-nex dept-id,

Create a query that will return the staff members of Global Fast Foods ranked by salary from lowest to highest.

Ellect staff - member - name, rating, RANK () OVER ploted - feet- looks - May order & Mrach - low to high room

	Indexes and Synonyms
1.	Undexes and Synonyms What is an index and what is it used for? the maex is an optional when which that of they weeking to make independent of data in the table. It is come for speeking up data retrigizal and arguing uniqueness.
۷.	A ROW In it a french - column when that regreents the frequent
3.	when will an index be created automatically? identify unique suture. An index is orested automatically? identify by the batabor when a promary key of

4. Create a nonunique index (foreign key) for the DJs on Demand column (cd_number) in the D_TRACK_LISTINGS table. Use the Oracle Application Express SQL Workshop Data Browser to confirm that the index was created.

Crente INDEX k-track-lintage -ch-fk-th ON D-TRACE-LIST IN 615 (cd-number);

5. Use the join statement to display the indexes and uniqueness that exist in the data dictionary for the DJs on Demand D_SONGS table.

Select i index_nome, i uniquerous, c.col_nome, C.col_builing
FROM Unon_INDEXES i TOIN USER_IND-COLUMNS e ON
i. thex -nome = c. index_nome undere i table_nome = 0_20NGS;

6. Use a SELECT statement to display the index_name, table_name, and uniqueness from the data dictionary USER_INDEXES for the DJs on Demand D_EVENTS table.

relect index_name, table _nome, uniqueness FROM USER-INDEXES where table - name = D_EVENTS!

7. Write a query to create a synonym called dj_tracks for the DJs on Demand d_track_listings table.

CREATE SYNONYM & - trucks for d- track-linking

8. Create a function-based index for the last_name column in DJs on Demand D_PARTNERS table that makes it possible not to have to capitalize the table name for searches. Write a SELECT statement that

Create INDF. x partners - lad name - lower - this ON D-Routners
(LOWER foot - mame).

LOWER (Last - name) = "month";

9. Create a synonym for the D_TRACK_USTINGS table. Confirm that it has been created by querying the data dictionary.

the data dictionary.

Create synonym trucklist for D-TRACE-LASTINGS;

Lebest synonym name, table-owner, table-run FROM

VSER_SYNONYMS where synonym-nume = "TRACELAST";

10. Drop the synonym that you created in question

DROP SYNONYM tracklist;

RESULT: Thus the views are created in Mysac

Evaluation Procedure	Marks awarded
Evaluation Freedam's	
Query(5)	5
	5
Execution (5)	
	3
Viva(5)	
	12
Total (15)	15
Faculty Signature	don