CSD 2206 – 2022S

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Database Design & SQL

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CPCM Practical Activity: 10

1. **Create the view:**

   To create a table view in ORACLE we can use the below SQL query:

   **CREATE VIEW myView_142 AS
   SELECT employee_id, first_name, last_name, department_id
   FROM employees;**

   The provided SQL statement generates a virtual table called **myView_142** that displays columns from the **employees** table (**employee_id**, **first_name**, **last_name**, and **department_id**). This makes it easy to query and retrieve this specific group of data without having to rewrite the full **SELECT** statement each time certain columns are required.

   The output of the above query can be visualized below:

2. Show that the view is created:

In order to visualize the view we just created above we can execute the SQL query below:

SELECT * FROM user_views WHERE view_name = 'MYVIEW_142';

This **SQL** statement retrieves information about views from the system's metadata. It retrieves all details (*) from the **user_views** table for which the **view_name** column is **MYVIEW_142**. It checks the database to see if a view named **MYVIEW_142** has been created. The result from the above query is shown below:

VIEW_NAME	TEXT_LENGTH	TEXT	TEXT_VC	TYPE_TEXT_LENGTH	TYPE_TEXT	OID_TEXT_LENGTH
MYVIEW_142	72	SELECT employee_id, first_name, last_name, department_id FROM employees	SELECT employee_id, first_name, last_name, department_id FROM employees	–	–	–

OID_TEXT	VIEW_TYPE_OWNER	VIEW_TYPE	SUPERVIEW_NAME	EDITIONING_VIEW	READ_ONLY	CONTAINER_DATA	BEQUEATH
–	–	–	–	N	N	N	DEFINER

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```
1  SELECT * FROM user_views WHERE view_name = 'MYVIEW_142';
2
```

ORIGIN_CON_ID	DEFAULT_COLLATION	CONTAINERS_DEFAULT	CONTAINER_MAP	EXTENDED_DATA_LINK
3	USING_NLS_COMP	NO	NO	NO

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```
1  SELECT * FROM user_views WHERE view_name = 'MYVIEW_142';
2
```

...TENDED_DATA_LINK	EXTENDED_DATA_LINK_MAP	HAS_SENSITIVE_COLUMN	ADMIT_NULL	PDB_LOCAL_ONL...
	NO	NO	NO	NO

3. Run the view and show the result:

To view the data inside the create view, we can use the query below:

SELECT * FROM myView_142;

This SQL query returns all columns and rows from the **myView_142** view, presenting the data that was selected and formatted when the view was created.

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	DEPARTMENT_ID
100	Steven	King	9
101	Neena	Kochhar	9
102	Lex	De Haan	9
103	Alexander	Hunold	6
104	Bruce	Ernst	6
105	David	Austin	6
106	Valli	Pataballa	6
107	Diana	Lorentz	6
108	Nancy	Greenberg	10
109	Daniel	Faviet	10
110	John	Chen	10
111	Ismael	Sciarra	10
112	Jose Manuel	Urman	10
113	Luis	Popp	10

SQL Worksheet

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```
1  SELECT * FROM myView_142;
2
```

▲

176	Jonathon	Taylor	8
177	Jack	Livingston	8
178	Kimberely	Grant	8
179	Charles	Johnson	8
192	Sarah	Bell	5
193	Britney	Everett	5
200	Jennifer	Whalen	1
201	Michael	Hartstein	2
202	Pat	Fay	2
203	Susan	Mavris	4
204	Hermann	Baer	7
205	Shelley	Higgins	11
206	William	Gietz	11