## DCL & TCL COMMANDS SQL

Date - 2/2/2022

habarrant dans - tolog

Ain: To write SQL queries to execute DCL and TCL commands.

Queros:

1.) Greate atable named customes

CREATE TABLE Customer !

customerid Number, sule clate date,

sules person vancher, 2 (255),

stere state varchar2 (255),

order-id number

Dutput: Table created

2.) Query to insert whomen

Query: INSERT INTO ENSTONNET VALUES (1001, 13-May-2020, 1200, Pajk, "KA"

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QUEY! INSERT INTO CUHOMON VALUES (1001, 22-May-2020, 1200, 6MK, NULL 1002)

Quey: INSERT INTO CUSTOMES VALUES (1002, 123-May-2020, 1200, Malika Rakel 'MH', 1003);

Quey! INSERT INTO Customer VALUES (1004, 122-Mcy 2020', 140, "MK', NULL' 1003); person togoganale a togtag

· hathar 18

Query - INSERT INTO Customer VALUES (1005, 1/2-Dec-2019, 4200, FRE ROKER, My,

Query - INSERT INTO Customer VALVES (1002, \$21-May-2020', 1200, Molly Jambey:

3) GRANT SELECT ON Customer to PUBLIC; Destrut - Grant succeeded

4) REVOKE SELECT ON Customer to PUBLIC; output- Revoke succeeded

5.) INSERT INTO Customer VALUES (1006, '04-Man-2020', 3200, 6 Molly Jambery', 6 DL', 1008);

6) COMMIT; output: - Commit complete

T) DELETE FROM Customes

WHERE stone state = 6 MH'

AND customes id = 6 1002';

8.) Rollback; output- hollback complete

a) Saveport spl; output-saveport created

(0.) DELETE FROM CUSTOMER

WHERE store-state = 6 MH'

AND watomerid = 1002';

11) SAVE POINT SP2; Output - Lave Poput Greated pe) ROLL BACK to SP1; putput: Rollback (ourplete 13:) spool off;

hesult: Thus the SQL queries to execute the DCL and TCL commands were successfully executed and verefred.

## **Output Screenshots**

```
D:\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
SQL*Plus: Release 11.2.0.4.0 Production on Tue Feb 8 13:47:07 2022
Copyright (c) 1982, 2013, Oracle. All rights reserved.
Enter user-name: RA1911003010762/RA1911003010762@d2-saminathan.c6hfisyr3ugy.us-east-1.rds.amazonaws.com:1521/d2
Connected to:
Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production
SQL> create table customer
 gly create dose

2 (
3 customer_id number,
4 sale_date date,
5 sale_amount number,
6 salesperson varchar(255),
7 store_state varchar(255),
8 order_id number
9 );
Table created.
SQL> insert into customer values(1001, '23-may-2020', 1200, 'Raj K', 'KA', 1001);
SQL> insert into customer values(1001, '22-may-2020', 1200, 'M K', 'NULL', 1002);
1 row created.
SQL> insert into customer values(1002, '23-may-2020', 1200, 'Malika Rakesh', 'MH', 1003);
SQL> insert into customer values(1003, '22-may-2020', 1500, 'Malika Rakesh', 'MH', 1004);
1 row created.
SQL> insert into customer values(1004, '22-may-2020', 1210, 'M K', 'NULL', 1003);
SQL> insert into customer values(1005, '12-dec-2019', 4200, 'R K Rakesh', 'MH', 1007);
SQL> insert into customer values(1002, '21-may-2020', 1200, 'Molly Samberg', 'DL', 1001);
1 row created.
```

Select D\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe	
SQL> insert into customer values(1002, '21-may-2020', 1200, 'Molly Samberg', 'DL', 1001);	
1 row created.	
SQL> select * from customer;	
CUSTOMER_ID SALE_DATE SALE_AMOUNT	
SALESPERSON	
STORE_STATE	
ORDER_ID	
1001	
CUSTOMER_ID SALE_DATE SALE_AMOUNT	
SALESPERSON	
STORE_STATE	
ORDER_ID	
1602	
CUSTOMER_ID SALE_DATE SALE_AMOUNT	
SALESPERSON	
STORE_STATE	
ORDER_ID	
1002 23-MAY-20 1200 Malika Rakesh MH	
1003	
CUSTOMER ID SALE DATE SALE AMOUNT	

Select D:\ORACLE CLIENT 11.2	vinstantclient_11_2\sqlplus.exe
SALESPERSON	
STORE_STATE	
ORDER_ID	
1003 22-MAY-20	1500
Malika Rakesh MH	
1004	
CUSTOMER IN CALE DATE SALE	F AMOUNT.
CUSTOMER_ID SALE_DATE SALE	
SALESPERSON	
STORE_STATE	
ORDER_ID	
	1210
M K NULL	
1003	
CUSTOMER_ID SALE_DATE SALE	E AMOUNT
SALESPERSON	
STORE_STATE	
ORDER_ID	
1005 12-DEC-19 R K Rakesh	4200
MH 1007	
CUSTOMER_ID SALE_DATE SALE	E_AMOUNT
SALESPERSON	
STORE_STATE	
ORDER_ID	
1002 21-MAY-20	1290
Molly Samberg	

```
■ Select D:\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
     1003
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
 ORDER_ID
     1005 12-DEC-19 4200
R K Rakesh
     1007
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
 ORDER_ID
     1002 21-MAY-20 1200
Molly Samberg
     1001
7 rows selected.
SQL> grant select on customer to public;
Grant succeeded.
SQL> revoke select on customer from public;
Revoke succeeded.
SQL> insert into customer values(1005, '04-mar-2020', 3200, 'Molly Samberg', 'DL', 1008);
1 row created.
SQL> commit;
Commit complete.
```

Select D:\ORACLE CLIENT 11.2\instantclient	11_2\sqlplus.exe
Commit complete.	
SQL> select * from customer;	
CUSTOMER_ID SALE_DATE SALE_AMOUNT	
SALESPERSON	
STORE_STATE	
ORDER_ID	
1001 23-MAY-20 1200 Raj K KA 1001	
CUSTOMER_ID SALE_DATE SALE_AMOUNT	
SALESPERSON	
STORE_STATE	
ORDER_ID	
 1001 22-MAY-20 1200 M K NULL 1002	
CUSTOMER_ID SALE_DATE SALE_AMOUNT	
SALESPERSON	
STORE_STATE	
ORDER_ID	
1002 23-MAY-20 1200 Malika Rakesh MH 1003	
CUSTOMER_ID SALE_DATE SALE_AMOUNT	
SALESPERSON	

	DRACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
MH 1004	
CUSTOMER_IL	SALE_DATE SALE_AMOUNT
SALESPERSON	1
STORE_STATE	
ORDER_ID	
	1 22-MAY-20 1210
CUSTOMER_IC	SALE_DATE SALE_AMOUNT
SALESPERSON	
STORE_STATE	
ORDER_ID  1005 R K Rakesh MH 1007	5 12-DEC-19 4200
CUSTOMER_ID	SALE_DATE SALE_AMOUNT
SALESPERSON	
STORE_STATE	
ORDER_ID 1002 Molly Sambe DL 1001	2 21-MAY-20 1200 erg
CUSTOMER_ID	) SALE_DATE SALE_AMOUNT
SALESPERSON	 

```
Select D:\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
DL
      1008
8 rows selected.
SQL> delete from customer

2 where store_state = 'MH'

3 and customer_id = '1002';
1 row deleted.
SQL> select * from customer;
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
 ORDER_ID
      1001 23-MAY-20 1200
Raj K
KA
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
 ORDER_ID
  1001 22-MAY-20 1200
ΜK
NULL
      1002
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
 ORDER_ID
```

Select D:\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
SALESPERSON
STORE_STATE
ODDER TO
ORDER_ID
1005 12-DEC-19 4200 R K Rakesh
MH
1007
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
ORDER_ID
1002 21-MAY-20 1200 Molly Samberg
DL 1001
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
SALESPERSON
STORE_STATE
ORDER_ID
 1006 04-MAR-20 3200
Molly Samberg DL
1008
7 rows selected.
SQL> rollback;
Rollback complete.
noarostn compacter

Select D:\O	RACLE CLIENT	11.2\instantcl	ent_11_2\sqlplus.exe			
SQL> select	* from cus	stomer;				
CUSTOMER_ID	SALE_DATE	SALE_AMOUN	Ţ			
SALESPERSON						
STORE_STATE				 		
ORDER_ID				 		
	23-MAY-20	120	3			
CUSTOMER_ID  SALESPERSON		SALE_AMOUN	T -			
STORE_STATE						
ORDER_ID						
1001 M K NULL 1002	22-MAY-20	120	3			
CUSTOMER_ID	SALE_DATE	SALE_AMOUN	г			
SALESPERSON						
STORE_STATE						
ORDER_ID						
1002 Malika Rake: MH 1003		120	3			
CUSTOMER_ID	SALE_DATE	SALE_AMOUN	Ţ			
SALESPERSON						
STORE STATE						

Select D:\ORACLE CLIENT 11.2	\instantclient_11_2\sqlplus.exe
ORDER_ID	
1004 22-MAY-20 M K NULL 1003	1210
CUSTOMER_ID SALE_DATE SALE	
SALESPERSON	
STORE_STATE	
ORDER_ID	
1005 12-DEC-19 R K Rakesh MH 1007	4200
CUSTOMER_ID SALE_DATE SALE	
STORE STATE	
Professional Company of the Company	
	1200
CUSTOMER_ID SALE_DATE SALE	E_AMOUNT
SALESPERSON	
STORE_STATE	
ORDER_ID	
 1005 04-MAR-20 Molly Samberg	3200

```
■ Select D:\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
 ORDER_ID
1006 04-MAR-20 3200
Molly Samberg
DL
     1008
8 rows selected.
SQL> savepoint sp1;
Savepoint created.
SQL> delete from customer

2 where store_state = 'MH'

3 and customer_id = '1002';
1 row deleted.
SQL> savepoint sp2;
Savepoint created.
SQL> rollback to sp1;
Rollback complete.
SQL> select * from customer;
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE STATE
 ORDER_ID
1001 23-MAY-20 1200
Raj K
KA
1001
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
```

Select D\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
ORDER_ID
1004 22-MAY-20 1210
M K NULL
1003
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
ORDER_ID
1005 12-DEC-19 4200
R K Rakesh MH
1007
CUSTOMER_ID_SALE_DATE_SALE_AMOUNT
SALESPERSON
STORE_STATE
ORDER_ID
1002 21-MAY-20 1200 Molly Samberg
DL 1901
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
ORDER_ID
Select D:\ORACLE CLIENT 11.2\instantclient_11_2\sqlplus.exe
Select D. (OTACLE CLICIA) 11.2 (Instantchent_11_2)5qipius.exe
CUSTOMED TO SALE DATE SALE ANGUNT
CUSTOMER_ID SALE_DATE SALE_AMOUNT
SALESPERSON
STORE_STATE
ORDER_ID
1006 04-MAR-20 3200 Molly Samberg
DL
1008
8 rows selected.
SQL> spool off;
not spooling currently SQL>