SQL

Rajsaranya

DML COMMANDS:

- dml stands for data manipulation language
- DML commands in Structured Query Language change the data present in the SQL database. We can easily access, store, modify, update and delete the existing records from the database using DML commands.

List of DML commands:

- **SELECT**: This command is used to view the database or its objects (like table, index, function, views, store procedure, and triggers).
  INSERT:: This command is used to insert values into the table created in the database.
  DELETE: This command is used to delete objects from the database.
  UPDATE: This is used to update the values and coloumns of the table in the database..
  MERGE: This is used to merge the the coloumn of the table .

SELECT

TO SELECT THE TABLE

SYNTAX

SELECT * FROM *table_name*

SELECT * FROM EMP;

Query Result

SQL | All Rows Fetched: 14 in 0.157 seconds

	EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7369	SMITH	CLERK	7902	17-12-80	800	(null)	20
2	7499	ALLEN	SALESMAN	7698	20-02-81	1600	300	30
3	7521	WARD	SALESMAN	7698	22-02-81	1250	500	30
4	7566	JONES	MANAGER	7839	02-04-81	2975	(null)	20
5	7654	MARTIN	SALESMAN	7698	28-09-81	1250	1400	30
6	7698	BLAKE	MANAGER	7839	01-05-81	2850	(null)	30
7	7782	CLARK	MANAGER	7839	09-06-81	2450	(null)	10
8	7788	SCOTT	ANALYST	7566	19-04-87	3000	(null)	20
9	7839	KING	PRESIDENT	(null)	17-11-81	5000	(null)	10
10	7844	TURNER	SALESMAN	7698	08-09-81	1500	0	30

INSERT

- **INSERT VALES IN TABLE**
- **SYNTAX**
- **INSERT INTO *table_name* (*column's1*) VALUES (*value's)*;**
- INSERT INTO Persons (PersonID,LastName, FirstName,Address,City)

  VALUES ('0001','A','Rajsaranya','adambakkam','chennai');

```
1 row inserted.
```

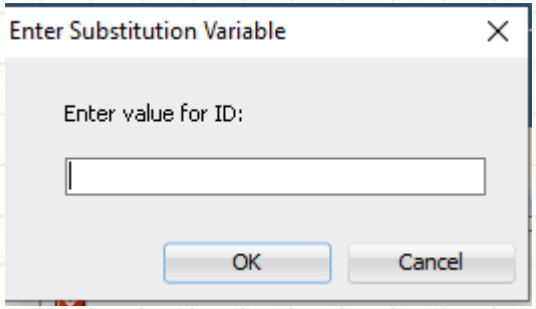
```
SQL> INSERT INTO Persons ( PersonID,LastName, FirstName,Address,City)
  2  VALUES ('0001','A','Rajsaranya','adambakkam','chennai');

1 row inserted.
```

Script Output | Query Result

All Rows Fetched: 1 in 0.015 seconds

	PERSONID	LASTNAME	FIRSTNAME	ADDRESS	CITY
1	1	A	Raisaranya	adambakkam	chennai

- **INSERT VALES IN TABLE MANUALY BY USER**



- **SYNTAX**
- **INSERT INTO *table_name* (*column's1 ,..*) VALUES (*'&ALIASNAME',..*);**
- **INSERT INTO Persons (PersonID,LastName, FirstName,Address,City)**
- **VALUES ('&ID','&LN','&FN','&ADD','&CITY');**

Script Output | Query Result

SQL | All Rows Fetched: 4 in 0.003 seconds

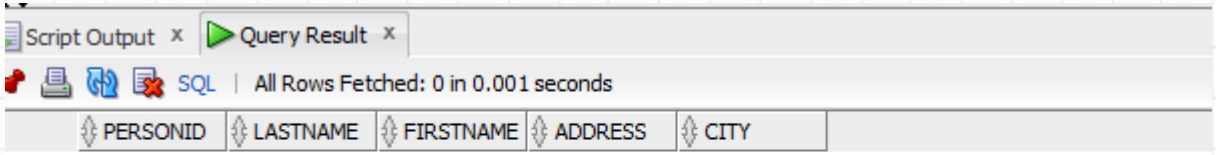
	PERSONID	LASTNAME	FIRSTNAME	ADDRESS	CITY
1	1	A	Raisaranva	adambakkam	chennai
2	2	V	VENGAT	KARUMANDAPAM	TRICHY
3	3	S	ASHOK	KILIYUR	KUMBAKONAM

DELETE

- **DELETE THE TABLE**
- **SYNTAX**
- *DELETE table_name;*
- DELETE PERSON_INFOS;

Table PERSON_INFOS created.

4 rows deleted.



- **DELETE FROM THE TABLE**
- **SYNTAX**
- *DELETE FROM table_name WHERE VALUES;*

UPDATE

- **UPDATE THE TABLE**
- **SYNTAX**
- **UPDATE TABLENAME SET COLOUMNNAME WHERE CLAUSE = VALUE;**
- **UPDATE PERSONS SET city = 'KANCHEEPURAM' WHERE PERSONID = 1;**
-

Script Output × Query Result ×

SQL | All Rows Fetched: 4 in 0.002 seconds

	PERS...	LASTNAME	FIRSTNAME	ADDRESS	CITY
1	1	A	Raisaranva	adambakkam	KANCHEEPURAM
2	1	V	VENGAT	TRICHY	KANCHEEPURAM
3	3	S	ASHOK	KATTUR	THANJAVUR
4	5	S	GAJA	KILIYUR	KUMBAKONAM

COMMIT

Commit complete.

COMMIT is a transaction control language in SQL

COMMIT;

BACKUP TABLE

- CREATE TABLE NEW TABLENAME AS (SELECT * FROM OLD TABLE NAME);
- CREATE TABLE PERSON_INFO AS (SELECT * FROM PERSONS);

MERGE