[DDL & DML STATEMNTS]

[DAY-1]

Subject	Overview
[SQL PROGRAMMING]	DDL statements are used to create database, schema, constraints, users, tables etc. DML is Data Manipulation Language and is used to manipulate data. Examples of DML are insert, update and delete statements.
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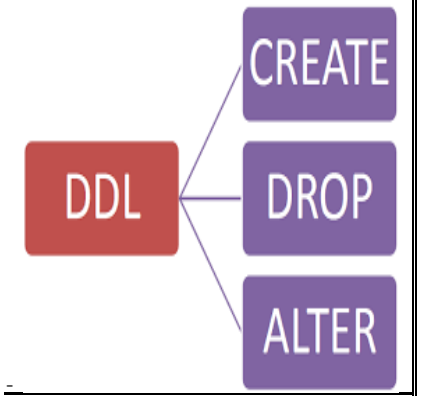
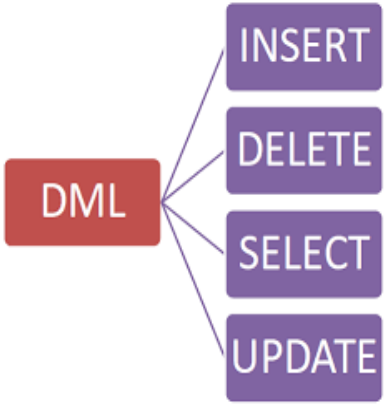
DDL & DML	SYNTAX	EXAMPLE
CREATE DATABASE USE DATABASE	CREATE DATABASE *databasename*;	CREATE DATABASE testDB;
CREATE TABLE	CREATE TABLE *table_name* (*column1 datatype*, *column2 datatype*, *column3 datatype*, ...)	CREATE TABLE Persons (PersonID int, LastName varchar(255), FirstName varchar(255), Address varchar(255), City varchar(255))
INSERT	INSERT INTO *table_name* (*column1*, *column 2*, *column3*, ...) VALUES (*value1*, *value2*, *value3*, ...) INSERT INTO *table_name* VALUES (*value1*, *value2*, *value3*, ...)	INSERT INTO Customers (CustomerName, ContactName, Address, City, PostalCode, Country) VALUES ('Cardinal', 'Tom B. Erichsen', 'Skagen 21', 'Stavanger', '4006', 'Norway') INSERT INTO Customers (CustomerName, City, Country) VALUES ('Cardinal', 'Stavanger', 'Norway')



UPDATE	UPDATE *table_name* SET *column1* = *value1*, *column2* = *value2*, ... WHERE *condition*;	UPDATE Customers SET ContactName = 'Alfred Schmidt', City= 'Frankfurt' WHERE CustomerID = 1 UPDATE Customers SET ContactName='Juan' WHERE Country='Mexico'
DELETE	DELETE FROM *table_name* WHERE *condition* *DELETE FROM table_name*	DELETE FROM Customers WHERE CustomerNam e='Alfreds Futterkiste' DELETE FROM Customers
SELECT	SELECT *column1*, *column2*, ... FROM *table_name* SELECT * FROM *table_name*	SELECT CustomerName, City FROM Customers SELECT * FROM Customers



Exercise

----------Prepare Sample Data To Practice SQL Skill----------

1.Sample Table Data– Worker

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
001	Monika	Arora	100000	2014-02-20 09:00:00	HR
002	Niharika	Verma	80000	2014-06-11 09:00:00	Admin
003	Vishal	Singhal	300000	2014-02-20 09:00:00	HR
004	Amitabh	Singh	500000	2014-02-20 09:00:00	Admin
005	Vivek	Bhati	500000	2014-06-11 09:00:00	Admin
006	Vipul	Diwan	200000	2014-06-11 09:00:00	Account
007	Satish	Kumar	75000	2014-01-20 09:00:00	Account
008	Geetika	Chauhan	90000	2014-04-11 09:00:00	Admin

a). CREATE TABLE WORKER

```
WORKER_ID SMALLINT ,
FIRST_NAME VARCHAR(25),
LAST_NAME VARCHAR(25),
SALARY  SMALLINT,
JOINING_DATE DATETIME,
DEPARTMENT VARCHAR(25)
```

b). INSERT ABOVE SAMPLE DATA INTO WORKER TABLE

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2.Sample Table Data – Bonus

BONUS_ID	BONUS_DATE	BONUS_AMOUNT
1	2016-02-20 00:00:00	5000
2	2016-06-11 00:00:00	3000
3	2016-02-20 00:00:00	4000
1	2016-02-20 00:00:00	4500
2	2016-06-11 00:00:00	3500

a).CREATE TABLE Bonus
(
BONUS_ID SMALLINT
WORKER_REF_ID SMALLINT,
BONUS_AMOUNT SMALLINT,
BONUS_DATE DATETIME,

)
b). INSERT ABOVE SAMPLE DATA INTO BONUS TABLE
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3.Sample Table Data – Title

TITLE_ID	WORKER_TITLE	AFFECTED_FROM
1	Manager	2016-02-20 00:00:00
2	Executive	2016-06-11 00:00:00
8	Executive	2016-06-11 00:00:00
5	Manager	2016-06-11 00:00:00
4	Asst. Manager	2016-06-11 00:00:00
7	Executive	2016-06-11 00:00:00
6	Lead	2016-06-11 00:00:00
3	Lead	2016-06-11 00:00:00

a). CREATE TABLE Title (
TITLE_ID SMALLINT,
WORKER_REF_ID SMALLINT,
WORKER_TITLE VARCHAR(25),
AFFECTED_FROM DATETIME,

)
b). INSERT ABOVE SAMPLE DATA INTO TITLE TABLE