

EXPERIMENT 2

Date: 20th January 2023

TITLE: DML (Data Manipulation Language) commands

Objective: To understand the concept of different DML commands.

1. EXERCISE ON RETRIEVING RECORDS FROM A TABLE.

a. Find out the names of all the clients.

➤ SELECT NAME FROM CLIENT_MASTER;

NAME
Ivan bayross
Mamta muzumdar
Chhaya bankar
Ashwini joshi
Hansel colaco
Deepak sharma

b. Retrieve the entire contents of the Client_Master table.

➤ SELECT * FROM CLIENT_MASTER;

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE
C00001	Ivan bayross	NULL		Mumbai	400054	Maharashtra	15000.00
C00002	Mamta muzumdar	NULL	NULL	Madras	780001	Tamil nadu	0.00
C00003	Chhaya bankar	NULL	NULL	Mumbai	400057	Maharashtra	5000.00
C00004	Ashwini joshi	NULL	NULL	Bangalore	560001	Karnataka	0.00
C00005	Hansel colaco	NULL	NULL	Mumbai	400060	Maharashtra	2000.00
C00006	Deepak sharma	NULL	NULL	Mangalore	560050	Karnataka	0.00

c. Retrieve the list of names, city and the state of all the clients.

➤ SELECT NAME, CITY, STATE FROM CLIENT_MASTER;

NAME	CITY	STATE
Ivan bayross	Mumbai	Maharashtra
Mamta muzumdar	Madras	Tamil nadu
Chhaya bankar	Mumbai	Maharashtra
Ashwini joshi	Bangalore	Karnataka
Hansel colaco	Mumbai	Maharashtra
Deepak sharma	Mangalore	Karnataka

d. List the various products available from the Product_Master table.

➤ SELECT DESCRIPTION FROM PRODUCT_MASTER;

DESCRIPTION
T-Shirt
Shirts
Cotton jeans
Jeans
Trousers
Pull Overs
Denim jeans
Lycra tops
Skirts

e. List all the clients who are located in Mumbai.

- SELECT NAME FROM CLIENT_MASTER WHERE CITY="MUMBAI";

NAME
Ivan bayross
Chhaya bankar
Hansel colaco

f. Find the names of salesman who have a salary equal to Rs.3000.

- SELECT SALESMANNAME FROM SALESMAN_MASTER WHERE
SALAMT="3000";

NAME
Ivan bayross
Chhaya bankar
Hansel colaco

2. EXERCISE ON UPDATING RECORDS IN A TABLE

a. Change the city of ClientNo 'C00005' to 'Bangalore'.

- UPDATE CLIENT_MASTER SET CITY = "BANGALORE" WHERE
CLIENTNO = "C00005";
- SELECT CLIENTNO, CITY FROM CLIENT_MASTER WHERE CLIENTNO
= "C00005";

CLIENTNO	CITY
C00005	BANGALORE

b. Change the BalDue of ClientNo 'C00001' to Rs.1000.

- UPDATE CLIENT_MASTER SET BALDUE = "1000" WHERE CLIENTNO =
"C00001";
- SELECT CLIENTNO, BALDUE FROM CLIENT_MASTER WHERE
CLIENTNO = "C00001";

CLIENTNO	BALDUE
C00001	1000.00

c. Change the cost price of 'Trousers' to Rs.950.00.

- UPDATE PRODUCT_MASTER SET COST_PRICE = "950" WHERE
DESCRIPTION = "TROUSERS";
- SELECT DESCRIPTION, COST_PRICE FROM PRODUCT_MASTER
WHERE DESCRIPTION = "TROUSERS";

DESCRIPTION	COST_PRICE
Trousers	950.00

d. Change the city of the salesman to Pune.

- UPDATE SALESMAN_MASTER SET CITY = "PUNE";
- SELECT * FROM SALESMAN_MASTER;

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOTET	YTDSALES	REMARKS
S00001	Aman	A/14	Worli	PUNE	400002	Maharashtra	3000	100	50.00	Good
S00002	OMKAR	65	NARIMAN	PUNE	400002	Maharashtra	3000	200	100.00	Good
S00003	RAJ	P-7	BANDRA	PUNE	400032	Maharashtra	3000	200	100.00	Good
S00004	ASHISH	A/5	JUHU	PUNE	400044	Maharashtra	3000	200	150.00	Good

3. EXERCISE ON DELETING RECORDS IN A TABLE

a. Delete all salesman from the Salesman_Master whose salaries are equal to Rs.3500.

- DELETE FROM SALESMAN_MASTER WHERE SALAMT=3500;
- SELECT * FROM SALESMAN_MASTER;

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOTET	YTDSALES	REMARKS
S00001	Aman	A/14	Worli	PUNE	400002	Maharashtra	3000	100	50.00	Good
S00002	OMKAR	65	NARIMAN	PUNE	400002	Maharashtra	3000	200	100.00	Good
S00003	RAJ	P-7	BANDRA	PUNE	400032	Maharashtra	3000	200	100.00	Good
S00004	ASHISH	A/5	JUHU	PUNE	400044	Maharashtra	3000	200	150.00	Good

b. Delete all products from Product_Master where the quantity on hand is equal to 100.

- DELETE FROM PRODUCT_MASTER WHERE QTY_ON_HAND=100;
- SELECT * FROM PRODUCT_MASTER;

PRODUCTNO	DESCRIPTION	PROFIT_PERCENT	UNIT_MEASURE	QTY_ON_HAND	REORDERL_VL	SELLPRICE	COST_PRICE
P00001	T-Shirt	5.00	Piece	200	50	350.00	250.00
P0345	Shirts	6.00	Piece	150	50	500.00	350.00
P07868	Trousers	2.00	Piece	150	50	850.00	950.00
P07885	Pull Overs	2.50	Piece	80	30	700.00	450.00
P07975	Lycra tops	5.00	Piece	70	30	300.00	175.00
P08865	Skirts	5.00	Piece	75	30	450.00	300.00

c. Delete from Client_Master where the column state holds the value ‘Tamil Nadu’.

- DELETE FROM CLIENT_MASTER WHERE STATE="TAMIL NADU";
- SELECT * FROM CLIENT_MASTER;

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE
C00001	Ivan bayross	NULL		Mumbai	400054	Maharashtra	1000.00
C00003	Chhaya bankar	NULL	NULL	Mumbai	400057	Maharashtra	5000.00
C00004	Ashwini joshi	NULL	NULL	Bangalore	560001	Karnataka	0.00
C00005	Hansel colaco	NULL	NULL	BANGALORE	400060	Maharashtra	2000.00
C00006	Deepak sharma	NULL	NULL	Mangalore	560050	Karnataka	0.00

4. EXERCISE ON ALTERING THE TABLE STRUCTURE

- a. Add a column called 'Telephone' of data type integer to the **Client_Master** table.

- ALTER TABLE CLIENT_MASTER ADD TELEPHONE INTEGER;
- DESC CLIENT_MASTER;

Field	Type	Null	Key	Default	Extra
CLIENTNO	varchar(6)	YES		NULL	
NAME	varchar(20)	YES		NULL	
ADDRESS1	varchar(30)	YES		NULL	
ADDRESS2	varchar(30)	YES		NULL	
CITY	varchar(15)	YES		NULL	
PINCODE	int	YES		NULL	
STATE	varchar(15)	YES		NULL	
BALDUE	decimal(10,2)	YES		NULL	
TELEPHONE	int	YES		NULL	

- b. Change the size of SellPrice column in **Product_Master** to (10, 2).

- ALTER TABLE PRODUCT_MASTER MODIFY SELLPRICE DECIMAL(10,2);
- DESC PRODUCT_MASTER;

Field	Type	Null	Key	Default	Extra
PRODUCTNO	varchar(6)	YES		NULL	
DESCRIPTION	varchar(15)	YES		NULL	
PROFIT_PERCENT	decimal(4,2)	YES		NULL	
UNIT_MEASURE	varchar(10)	YES		NULL	
QTY_ON_HAND	int	YES		NULL	
REORDERLVL	int	YES		NULL	
SELLPRICE	decimal(10,2)	YES		NULL	
COST_PRICE	decimal(8,2)	YES		NULL	

5. EXERCISE ON DELETING THE TABLE STRUCTURE ALONG WITH THE DATA

- a. Destroy the table **Client_Master** along with its data.

- DROP TABLE CLIENT_MASTER;
- SHOW TABLES;

Tables_in_dmbs_lab
product_master
salesman_master

6. EXERCISE ON RENAMING THE TABLE

- a. Change the name of the **Salesman_Master** to **sman_mast**.

- ALTER TABLE SALESMAN_MASTER RENAME TO SMAN_MAST;
- SHOW TABLES;

Tables_in_dmbs_lab
product_master
sman_mast