Experiment 2

Title: **DML commands with constraints**

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.

```
64 •    select NAME from CLIENT_MASTER;
65
```

NAME
Ivan Bayross
Mamta Muzumdar
Chhaya Bankar
Ashwini Joshi
Hansel Colaco
Deepak Sharma
Sohail Khan

b. Retrieve the entire contents of the Client_Master table.

```
65 •    select * from CLIENT_MASTER;
66
```

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE
C001	Ivan Bayross	ABC	JKL	Mumbai	400054	Maharashtra	15000.00
C002	Mamta Muzumdar	BCD	KLM	Madras	780001	Tamil Nadu	0.00
C003	Chhaya Bankar	CDE	LMN	Mumbai	400057	Maharashtra	5000.00
C004	Ashwini Joshi	DEF	MNO	Bangalore	560001	Karnataka	0.00
C005	Hansel Colaco	EFG	NOP	Mumbai	400060	Maharashtra	2000.00
C006	Deepak Sharma	FGH	OPQ	Mangalore	560050	Karnataka	0.00
C007	Sohail Khan	GHI	PQR	Surat	395005	Gujarat	345.00

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

```
66 •     select NAME, CITY, STATE from CLIENT_MASTER;
67
```

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
Sohail Khan	Surat	Gujarat

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

```
67 •     select DESCRIPTION from PRODUCT_MASTER;
```

DESCRIPTION
▶ T-Shirt
Shirts
Cotton Jeans
Jeans
Trousers
Pull Overs

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

```
68 •     select * from CLIENT_MASTER where CITY='Mumbai';
```

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE
▶ C001	Ivan Bayross	ABC	JKL	Mumbai	400054	Maharashtra	15000.00
C003	Chhaya Bankar	CDE	LMN	Mumbai	400057	Maharashtra	5000.00
C005	Hansel Colaco	EFG	NOP	Mumbai	400060	Maharashtra	2000.00

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

```
69 •     select SALESMANNAME from SALESMAN_MASTER where SALAMT=3000;
```

SALESMANNAME
▶ Aman
Omkar
Raj
Ashish

2. Exercise on updating records in a table

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

```
73 •   update CLIENT_MASTER set CITY='Bangalore' where CLIENTNO='C005';
74 •   select * from CLIENT_MASTER;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE
C001	Ivan Bayross	ABC	JKL	Mumbai	400054	Maharashtra	15000.00
C002	Mamta Muzumdar	BCD	KLM	Madras	780001	Tamil Nadu	0.00
C003	Chhaya Bankar	CDE	LMN	Mumbai	400057	Maharashtra	5000.00
C004	Ashwini Joshi	DEF	MNO	Bangalore	560001	Karnataka	0.00
C005	Hansel Colaco	EFG	NOP	Bangalore	400060	Maharashtra	2000.00
C006	Deepak Sharma	FGH	OPQ	Mangalore	560050	Karnataka	0.00
C007	Sohail Khan	GHI	PQR	Surat	395005	Gujarat	345.00

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

```
75 •   update CLIENT_MASTER set BALDUE=1000 where CLIENTNO='C001';   -- b
76 •   select * from CLIENT_MASTER;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE
C001	Ivan Bayross	ABC	JKL	Mumbai	400054	Maharashtra	1000.00
C002	Mamta Muzumdar	BCD	KLM	Madras	780001	Tamil Nadu	0.00
C003	Chhaya Bankar	CDE	LMN	Mumbai	400057	Maharashtra	5000.00
C004	Ashwini Joshi	DEF	MNO	Bangalore	560001	Karnataka	0.00
C005	Hansel Colaco	EFG	NOP	Bangalore	400060	Maharashtra	2000.00
C006	Deepak Sharma	FGH	OPQ	Mangalore	560050	Karnataka	0.00
C007	Sohail Khan	GHI	PQR	Surat	395005	Gujarat	345.00

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

```
77 •   update PRODUCT_MASTER set COSTPRICE=950 where DESCRIPTION='Trousers';
78 •   select * from PRODUCT_MASTER;
79
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNITMEASURE	QTYONHAND	REORDERL	SELLPRICE	COSTPRICE
P00001	T-Shirt	5.00	Piece	200	50	350.00	250.00
P0345	Shirts	6.00	Piece	150	50	500.00	350.00
P06734	Cotton Jeans	5.00	Piece	100	20	600.00	450.00
P07865	Jeans	5.00	Piece	100	20	750.00	500.00
P07868	Trousers	2.00	Piece	150	50	850.00	950.00
P07885	Pull Overs	2.50	Piece	80	30	700.00	450.00

d. Change the city of the salesman to Pune.

```
79 •    update SALESMAN_MASTER set CITY='Pune';
80 •    select * from SALESMAN_MASTER;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOGET	YTDSALES	REMARKS
S0001	Aman	A/14	Worli	Pune	400002	Maharashtra	3000	100.00	50.00	Good
S0002	Omkar	65	Nariman	Pune	400001	Maharashtra	3000	200.00	100.00	Good
S0003	Raj	P-7	Bandra	Pune	400032	Maharashtra	3000	200.00	100.00	Good
S0004	Ashish	A/5	Juhu	Pune	400044	Maharashtra	3000	200.00	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.

```
85 •    delete from SALESMAN_MASTER where SALAMT=3500;
86 •    select * from SALESMAN_MASTER;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOGET	YTDSALES	REMARKS
S0001	Aman	A/14	Worli	Pune	400002	Maharashtra	3000	100.00	50.00	Good
S0002	Omkar	65	Nariman	Pune	400001	Maharashtra	3000	200.00	100.00	Good
S0003	Raj	P-7	Bandra	Pune	400032	Maharashtra	3000	200.00	100.00	Good

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

```
87 •    delete from PRODUCT_MASTER where QTYONHAND=100;
88 •    select * from PRODUCT_MASTER;
89
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNITMEASURE	QTYONHAND	REORDERL	SELLPRICE	COSTPRICE
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

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

```
89 •    delete from CLIENT_MASTER where STATE='Tamil Nadu';
90 •    select * from CLIENT_MASTER;
91
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE
C001	Ivan Bayross	ABC	JKL	Mumbai	400054	Maharashtra	1000.00
C003	Chhaya Bankar	CDE	LMN	Mumbai	400057	Maharashtra	5000.00
C004	Ashwini Joshi	DEF	MNO	Bangalore	560001	Karnataka	0.00
C005	Hansel Colaco	EFG	NOP	Bangalore	400060	Maharashtra	2000.00
C006	Deepak Sharma	FGH	OPQ	Mangalore	560050	Karnataka	0.00
C007	Sohail Khan	GHI	PQR	Surat	395005	Gujarat	345.00

4. Exercise on altering the table structure

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

```
93 •    alter table CLIENT_MASTER add Telephone int;
94 •    select * from CLIENT_MASTER;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE	Telephone
C001	Ivan Bayross	ABC	JKL	Mumbai	400054	Maharashtra	1000.00	NULL
C003	Chhaya Bankar	CDE	LMN	Mumbai	400057	Maharashtra	5000.00	NULL
C004	Ashwini Joshi	DEF	MNO	Bangalore	560001	Karnataka	0.00	NULL
C005	Hansel Colaco	EFG	NOP	Bangalore	400060	Maharashtra	2000.00	NULL
C006	Deepak Sharma	FGH	OPQ	Mangalore	560050	Karnataka	0.00	NULL
C007	Sohail Khan	GHI	PQR	Surat	395005	Gujarat	345.00	NULL

b.   Change the size off SellPrice column in Product _Master to 10, 2.

```
95 •    alter table PRODUCT_MASTER modify SELLPRICE decimal(10,2);
96 •    desc PRODUCT_MASTER;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

Field	Type	Null	Key	Default	Extra
PRODUCTNO	varchar(6)	YES		NULL	
DESCRIPTION	varchar(15)	YES		NULL	
PROFITPERCENT	decimal(4,2)	YES		NULL	
UNITMEASURE	varchar(10)	YES		NULL	
QTYONHAND	int	YES		NULL	
REORDERL	int	YES		NULL	
SELLPRICE	decimal(10,2)	YES		NULL	
COSTPRICE	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.

```
99 •   drop table CLIENT_MASTER
```

Output

Action Output

#	Time	Action	Message
✓	36	15:33:13	select * from PRODUCT_MASTER LIMIT 0, 1000	4 row(s) returned
✓	37	15:33:32	alter table PRODUCT_MASTER modify SELLPRICE decimal(10,2)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓	38	15:33:32	desc PRODUCT_MASTER	8 row(s) returned
✓	39	15:35:35	drop table CLIENT_MASTER	0 row(s) affected

6. Exercise on renaming the table

a. Change the name of the Salesman_Master to sman_mast.

```
102 •   alter table SALESMAN_MASTER rename to sman_mast;
103 •   select * from sman_mast;
104
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: IA

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOGET	YTDSALES	REMARKS
S0001	Aman	A/14	Worli	Pune	400002	Maharashtra	3000	100.00	50.00	Good
S0002	Omkar	65	Nariman	Pune	400001	Maharashtra	3000	200.00	100.00	Good
S0003	Raj	P-7	Bandra	Pune	400032	Maharashtra	3000	200.00	100.00	Good