Advance Database Management System Lab

Experiment- 1

To understand DDL and DML commands

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Batch- 2

```sql
create database LabExperiment1;
use LabExperiment1;

CREATE TABLE CLIENT_MASTER(CLIENTNO VARCHAR(6), NAME
VARCHAR (20), ADDRESS1 VARCHAR(30), ADDRESS2 VARCHAR(30),
CITY VARCHAR(15), PINCODE INT, STATE VARCHAR(15), BALDUE
DECIMAL(10,2));
CREATE TABLE PRODUCT_MASTER (PRODUCTNO VARCHAR(6),
DESCRIPTION VARCHAR(15), PROFITPERCENT DECIMAL(4,2),
UNIT_MEASURE VARCHAR(10), QTYONHAND INT, REORDERLVL
INT, SELLPRICE DECIMAL(8,2), COSTPRICE DECIMAL(8,2));
CREATE TABLE SALESMAN_MASTER (SALESMANNO VARCHAR(6),
SALESMANNAME VARCHAR(20), ADDRESS1 VARCHAR(30),
ADDRESS2 VARCHAR(30), CITY VARCHAR(20), PINCODE INTEGER,
STATE VARCHAR(20), SALAMT REAL, TGTTOGET DECIMAL(10,2),
YTDSALES DECIMAL(6,2), REMARKS VARCHAR(60), PRIMARY KEY
(SALESMANNO));

INSERT INTO CLIENT_MASTER VALUES ('C00001', 'Ivan Bayross', '',
'Mumbai', 400054, 'Maharashtra', 15000.00);
INSERT INTO CLIENT_MASTER VALUES ('C00002', 'Mamta Muzumdar',
'','', 'Madras', 780001, 'Tamil Nadu', 0.00);
INSERT INTO CLIENT_MASTER VALUES ('C00003', 'Chhaya Bankar', '','',
'Mumbai', 400057, 'Maharashtra', 5000.00);
INSERT INTO CLIENT_MASTER VALUES ('C00004', 'Ashwini Joshi', '','',
'Bangalore', 560001, 'Karnataka', 0.00);
INSERT INTO CLIENT_MASTER VALUES ('C00005', 'Hansel Colaco', '','',
'Mumbai', 400060, 'Maharashtra', 2000.00);
INSERT INTO CLIENT_MASTER VALUES ('C00006', 'Deepak Sharma',
'','','Bangalore', 560050, 'Karnataka', 0.00);
```

```sql
INSERT INTO PRODUCT_MASTER VALUES ('P00001','T-Shirts', 5.00,
'Piece', 200, 50, 350.00, 250.00);
INSERT INTO PRODUCT_MASTER VALUES ('P0345','Shirts', 6.00, 'Piece',
150, 50, 500.00, 350.00);
INSERT INTO PRODUCT_MASTER VALUES ('P06734','Cotton Jeans', 5.00,
'Piece', 100, 20, 600.00, 450.00);
INSERT INTO PRODUCT_MASTER VALUES ('P07865','Jeans', 5.00, 'Piece',
100, 20, 750.00, 500.00);
INSERT INTO PRODUCT_MASTER VALUES ('P07868','Trousers', 2.00,
'Piece', 150, 50, 850.00, 550.00);
INSERT INTO PRODUCT_MASTER VALUES ('P07885','Pull Overs', 2.500,
'Piece', 150, 50, 850.00, 550.00);
INSERT INTO PRODUCT_MASTER VALUES ('P07868','Denim Shirts', 4.00,
'Piece', 100, 40, 350.00, 250.00);
INSERT INTO PRODUCT_MASTER VALUES ('P07868','Lycra Tops', 5.00,
'Piece', 70, 30, 300.00, 175.00);
INSERT INTO PRODUCT_MASTER VALUES ('P07868','Skirts', 5.00,
'Piece', 75, 30, 450.00, 300.00);

INSERT INTO SALESMAN_MASTER VALUES
('S00001','Aman','A/14','Worli','Mumbai',400002,'Maharashtra',3000,100,50,'Go
od');
INSERT INTO SALESMAN_MASTER VALUES
('S00002','Omkar','65','Nariman','Mumbai',400001,'Maharashtra',3000,200,100,'
Good');
INSERT INTO SALESMAN_MASTER VALUES ('S00003','Raj','P-
7','Bandra','Mumbai',400032,'Maharashtra',3000,200,100,'Good');
INSERT INTO SALESMAN_MASTER VALUES
('S00004','Ashish','A/5','Juhu','Mumbai',400044,'Maharashtra',3500,200,150,'Go
od');

--Find out the names of all the clients.
SELECT NAME FROM CLIENT_MASTER;
```

OUTPUT:

	NAME
1	Ivan Bayross
2	Chhaya Bankar
3	Ashwini Joshi
4	Hansel Colaco
5	Deepak Sharma

```sql
--Retrieve the entire contents of the Client_Master table.
SELECT * FROM CLIENT_MASTER;
```

OUTPUT:

	CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE	TELEPHONE
1	C00001	Ivan Bayross			Mumbai	400054	Maharashtra	1000.00	NULL
2	C00003	Chhaya Bankar			Mumbai	400057	Maharashtra	5000.00	NULL
3	C00004	Ashwini Joshi			Bangalore	560001	Karnataka	0.00	NULL
4	C00005	Hansel Colaco			Bangalore	400060	Maharashtra	2000.00	NULL
5	C00006	Deepak Sharma			Bangalore	560050	Karnataka	0.00	NULL

--Retrieve the list of names, city and the state of all the clients.
SELECT NAME, CITY, STATE FROM CLIENT_MASTER;
OUTPUT:

	NAME	CITY	STATE
1	Ivan Bayross	Mumbai	Maharashtra
2	Chhaya Bankar	Mumbai	Maharashtra
3	Ashwini Joshi	Bangalore	Karnataka
4	Hansel Colaco	Bangalore	Maharashtra
5	Deepak Sharma	Bangalore	Karnataka

--List the various products available from the Product_Master table.
SELECT PRODUCTNO, DESCRIPTION FROM PRODUCT_MASTER;
OUTPUT:

	PRODUCTNO	DESCRIPTION
1	P00001	T-Shirts
2	P0345	Shirts
3	P07868	Trousers
4	P07885	Pull Overs
5	P07868	Lycra Tops
6	P07868	Skirts

--List all the clients who are located in Mumbai.
SELECT CLIENTNO, NAME FROM CLIENT_MASTER WHERE CITY = 'Mumbai';
OUTPUT:

	CLIENTNO	NAME
1	C00001	Ivan Bayross
2	C00003	Chhaya Bankar

--Find the names of salesman who have a salary equal to Rs.3000
SELECT SALESMANNAME FROM SALESMAN_MASTER WHERE SALAMT = 3000;
OUTPUT:

	SALESMANNAME
1	Aman
2	Omkar
3	Raj

--Change the city of ClientNo 'C00005' to 'Bangalore'.
UPDATE CLIENT_MASTER SET CITY = 'Bangalore' WHERE CLIENTNO = 'C00005';
OUTPUT:

	CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE	TELEPHONE
1	C00001	Ivan Bayross			Mumbai	400054	Maharashtra	1000.00	NULL
2	C00003	Chhaya Bankar			Mumbai	400057	Maharashtra	5000.00	NULL
3	C00004	Ashwini Joshi			Bangalore	560001	Karnataka	0.00	NULL
4	C00005	Hansel Colaco			Bangalore	400060	Maharashtra	2000.00	NULL
5	C00006	Deepak Sharma			Bangalore	560050	Karnataka	0.00	NULL

--Change the BalDue of ClientNo 'C00001' to Rs.1000.
UPDATE CLIENT_MASTER SET BALDUE = 1000 WHERE CLIENTNO = 'C00001';
OUTPUT:

	CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE	TELEPHONE
1	C00001	Ivan Bayross			Mumbai	400054	Maharashtra	1000.00	NULL
2	C00003	Chhaya Bankar			Mumbai	400057	Maharashtra	5000.00	NULL
3	C00004	Ashwini Joshi			Bangalore	560001	Karnataka	0.00	NULL
4	C00005	Hansel Colaco			Bangalore	400060	Maharashtra	2000.00	NULL
5	C00006	Deepak Sharma			Bangalore	560050	Karnataka	0.00	NULL

--Change the cost price of 'Trousers' to rs.950.00.
UPDATE PRODUCT_MASTER SET COSTPRICE = 950.00 WHERE DESCRIPTION = 'Trousers';
OUTPUT:

	PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNIT_MEASURE	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
1	P00001	T-Shirts	5.00	Piece	200	50	350.00	250.00
2	P0345	Shirts	6.00	Piece	150	50	500.00	350.00
3	P07868	Trousers	2.00	Piece	150	50	850.00	950.00
4	P07885	Pull Overs	2.50	Piece	150	50	850.00	550.00
5	P07868	Lycra Tops	5.00	Piece	70	30	300.00	175.00
6	P07868	Skirts	5.00	Piece	75	30	450.00	300.00

--Change the city of the salesman to Pune.
UPDATE SALESMAN_MASTER SET CITY = 'Pune';
OUTPUT:

	SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOGET	YTDSALES	REMARKS
1	S00001	Aman	A/14	Worli	Pune	400002	Maharashtra	3000	100.00	50.00	Good
2	S00002	Omkar	65	Nariman	Pune	400001	Maharashtra	3000	200.00	100.00	Good
3	S00003	Raj	P-7	Bandra	Pune	400032	Maharashtra	3000	200.00	100.00	Good

--Delete all salesman from the Salesman_Master whose salaries are equal to Rs.3500.
DELETE FROM SALESMAN_MASTER WHERE SALAMT = 3500;
OUTPUT:

	SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOGET	YTDSALES	REMARKS
1	S00001	Aman	A/14	Worli	Pune	400002	Maharashtra	3000	100.00	50.00	Good
2	S00002	Omkar	65	Nariman	Pune	400001	Maharashtra	3000	200.00	100.00	Good
3	S00003	Raj	P-7	Bandra	Pune	400032	Maharashtra	3000	200.00	100.00	Good

--Delete all products from Product_Master where the quantity on hand is equal to 100
DELETE FROM PRODUCT_MASTER WHERE QTYONHAND = 100;
OUTPUT:

	PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNIT_MEASURE	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
1	P00001	T-Shirts	5.00	Piece	200	50	350.00	250.00
2	P0345	Shirts	6.00	Piece	150	50	500.00	350.00
3	P07868	Trousers	2.00	Piece	150	50	850.00	950.00
4	P07885	Pull Overs	2.50	Piece	150	50	850.00	550.00
5	P07868	Lycra Tops	5.00	Piece	70	30	300.00	175.00
6	P07868	Skirts	5.00	Piece	75	30	450.00	300.00

--Delete from Client_Master where the column state holds the value 'Tamil Nadu'.
DELETE FROM CLIENT_MASTER WHERE STATE = 'Tamil Nadu';
OUTPUT:

	CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE	TELEPHONE
1	C00001	Ivan Bayross			Mumbai	400054	Maharashtra	1000.00	NULL
2	C00003	Chhaya Bankar			Mumbai	400057	Maharashtra	5000.00	NULL
3	C00004	Ashwini Joshi			Bangalore	560001	Karnataka	0.00	NULL
4	C00005	Hansel Colaco			Bangalore	400060	Maharashtra	2000.00	NULL
5	C00006	Deepak Sharma			Bangalore	560050	Karnataka	0.00	NULL

--Add a column called 'Telephone' of data type integer to the Client_Master table.
ALTER TABLE CLIENT_MASTER ADD TELEPHONE INT;
OUTPUT:

CLIENTNO	NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	BALDUE	TELEPHONE

--Change the size off SellPrice column in Product _Master to 10, 2.
ALTER TABLE PRODUCT_MASTER ALTER COLUMN SELLPRICE DECIMAL(10,2);
OUTPUT:

	PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNIT_MEASURE	QTYONHAND	REORDERLVL	SELLPRICE	COSTPRICE
1	P00001	T-Shirts	5.00	Piece	200	50	350.00	250.00
2	P0345	Shirts	6.00	Piece	150	50	500.00	350.00
3	P07868	Trousers	2.00	Piece	150	50	850.00	950.00
4	P07885	Pull Overs	2.50	Piece	150	50	850.00	550.00
5	P07868	Lycra Tops	5.00	Piece	70	30	300.00	175.00
6	P07868	Skirts	5.00	Piece	75	30	450.00	300.00

--Destroy the table Client_Master along with its data.
DROP TABLE CLIENT_MASTER;

--Change the name of the Salesman_Master to sman_mast.
ALTER TABLE SALESMAN_MASTER RENAME to sman_mast;

SELECT * FROM sman_mast;

OUTPUT:

	SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTOGET	YTDSALES	REMARKS
1	S00001	Aman	A/14	Worli	Pune	400002	Maharashtra	3000	100.00	50.00	Good
2	S00002	Omkar	65	Nariman	Pune	400001	Maharashtra	3000	200.00	100.00	Good
3	S00003	Raj	P-7	Bandra	Pune	400032	Maharashtra	3000	200.00	100.00	Good