Assignment-1

Submitted by: Tanmay Vig

Roll Number: 19BCS061

Batch: 2nd year CSE

Exercise 1: Create the tables described below.

a) Table Name: Client_Master

Description: used to store information about clients.

+		+-		+-		+
İ	Column_Name		Data_Type	 +-	Size	1
1	ClientNo	1	varchar2	i	6	i
i	Name	1	varchar2	1	20	1
İ	Address1	1	varchar2	1	30	1
1	Address2	1	varchar2	1	30	1
1	City	1	varchar2	1	15	1
1	PinCode	1	Number	1	8	1
1	State	1	varchar2	1	15	1
1	BalDue	1	Number	1	10	1
+		+-		+		-+

b) Table Name: Product_Master

Description: Used to store information about products.

Column_Name	Data_Type	Size
ProductNo Description ProfitPercent UnitMeasure QtyOnHand RecorderLvi SellPrice CostPrice	<pre> varchar2 varchar2 varchar2 varchar2 varchar2 Number Number Number</pre> Number	6 15 4 10 8 8

c) Table Name: Salesman_Master

Description: Used to store information about salesman

working in the company.

+		-+-		+-		+
1	Column_Name	1	Data_Type	1	Size	1
+		-+-		+.		+
1	SalesmanNo	1	varchar2	1	6	1
1	SalesmanName	1	varchar2	1	20	1
1	Address1	1	varchar2	1	30	1
1	Address2	1	varchar2	1	30	1
1	City	1	varchar2	1	20	1
1	PinCode	1	Number	1	8	1
1	State	1	varchar2	1	20	1
1	SalAmt	1	Number	1	8	I
1	TgttoGet	1	Number	1	6	1
1	YtdSales	1	Number	1	6	i
1	Remarks	1	varchar2	1	60	i
+-		+-		+		-+

Answer:

a) Command:

```
CREATE TABLE Client_Master(
```

- -> ClientNo VARCHAR(6),
- -> Name VARCHAR(20),
- -> Address1 VARCHAR(30),
- -> Address2 VARCHAR(30),
- -> City VARCHAR(15),
- -> PinCode INT(8),
 - -> Sate VARCHAR(15),
- -> BalDue INT(10));

Output:

Query OK, 0 rows affected, 2 warnings (0.09 sec)

Command:

DESC Client_Master;

Field	Туре	Null	Key	Default	Extra
Name	varchar(6) varchar(20)	YES YES		NULL NULL	
Address1 Address2 City	varchar(30) varchar(30) varchar(15)	YES YES YES		NULL NULL NULL	
PinCode State	int varchar(15) int	YES YES YES		NULL NULL	
	et (0.01 sec)			NULL	

b) Command:

CREATE TABLE Product_Master(

- -> ProductNo VARCHAR(6),
- -> Description VARCHAR(15),
- -> ProfitPercent VARCHAR(4),
- -> UnitMeasure VARCHAR(10),
- -> QtyOnHand INT,
- -> RecorderLvi INT,
- -> SellPrice INT,
- -> CostPrice INT);

Output:

Query OK, 0 rows affected (0.04 sec)

Command:

DESC Product_Master;

Field	Туре	Null	Key	Default	Extra
ProductNo Description ProfitPercent UnitMeasure QtyOnHand RecorderLvi SellPrice CostPrice		YES YES		NULL NULL NULL NULL NULL NULL NULL NULL	

c) Command:

CREATE TABLE Salesman_Master(

- -> SalesmanNo VARCHAR(6),
- -> SalesmanName VARCHAR(20),
- -> Address1 VARCHAR(30),
- -> Address2 VARCHAR(30),
- -> City VARCHAR(20),
- -> PinCode INT,
- -> State VARCHAR(20),
- -> SalAmt INT,
- -> TgttoGet INT,
- -> YtdSales INT,
- -> Remarks VARCHAR(60));

Output:

Query OK, 0 rows affected (0.04 sec)

Command:

DESC Salesman Master;

+	+ Type -	+ Null Key	Default Extra
+	varchar(6) varchar(20) varchar(30) varchar(30) varchar(20) int varchar(20) int int int	YES YES YES YES YES YES YES YES YES YES YES	NULL
Remarks	varchar(60)	YES	NULL
11 rows in set	(0.00 sec)		

Exercise 2: Insert the following data into the tables:

a) Data for Client_Master Table.

ClientNo	. I.	Name	1	Address1	1	Address2	1	City	1	PinCode	1	State	7	Dail Dun
C00001 C00002 C00003 C00004 C00005	11111	Ivan Bayross Mamta Muzumdar Chhaya Bankar Ashwini Joshi Hansei Colaco Deepak Sharma	11111	Address1 Address1 Address1 Address1 Address1 Address1	11111	Address2 Address2 Address2 Address2 Address2 Address2	11111	Mumbai Madras Mumbai Bangalore Mumbai Mangalore	111111	400001 780001 400057 560001 400060	1 1 1 1 1	Maharashtra Tamil Nadu Maharashtra Karnataka Maharashtra	1 1 1 1	15000 0 5000 0 2000

b) Data for Product_Master Table.

c) Data for Salesman_Master Table.

SalesmanNo	SalesmanName	Address1	Address2	City	PinCode	State	I Sa	lAmt	TgtToGet	YtdSales Remarks
S00001 S00002 S00003 S00004	Omkar Raj Ashish	A/14 65 P-7 A/5	Nariman Bandra Juhu	Mumbai Mumbai Mumbai	1 400001 1 400032	Maharashtra Maharashtra Maharashtra	3	3000 I 3000 I 3000 I	100 200 200 200	50 Good 100 Good 100 Good 150 Good

Answer:

```
a) Command:
  INSERT INTO Client Master
    -> VALUES
    -> ('C00001','Ivan
  Bayross','Address1','Address2','Mumbai',400001,'Maharas
  htra',15000),
    -> ('C00002','Mamta
  Mazumdar','Address1','Address2','Madras',780001,'Tamil
  Nadu',0),
    -> ('C00003','Chhaya
  Bankar', 'Address1', 'Address2', 'Mumbai', 400057, 'Maharash
  tra',5000),
    -> ('C00004','Ashwini
  Joshi', 'Address1', 'Address2', 'Bangalore', 560001, 'Karnataka'
  ,0),
    -> ('C00005','Hansei
  Colaco','Address1','Address2','Mumbai',400060,'Maharash
  tra',2000),
    -> ('C00006','Deepak
  Sharma','Address1','Address2','Mangalore',560050,'Karnat
  aka',0);
  Output:
  Query OK, 6 rows affected (0.02 sec)
  Records: 6 Duplicates: 0 Warnings: 0
  Command:
  SELECT * FROM Client Master;
```

Output:

ClientNo	Name	Address1	Address2	City	PinCode	State	BalDue
C00001	Ivan Bayross	Address1	Address2	Mumbai	400001	Maharashtra	15000
C00002	Mamta Mazumdar	Address1	Address2	Madras	780001	Tamil Nadu	0
C00003	Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C00004	Ashwini Joshi	Address1	Address2	Bangalore	560001	Karnataka	0
C00005	Hansei Colaco	Address1	Address2	Mumbai	400060	Maharashtra	2000
C00006	Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0

b) Command:

```
INSERT INTO Product Master
```

- -> VALUES
- -> ('P0001', 'T-shirts', '5.00', 'Piece', 200, 50, 350, 250),
- -> ('P0345', 'Shirts', '6.00', 'Piece', 150, 50, 500, 350),
- -> ('P06734', 'Cotton Jeans', '5.00',

'Piece',100,20,600,450),

- -> ('P07865', 'Jeans', '5.00', 'Piece',100,20,750,500),
- -> ('P07868', 'Trousers', '2.00', 'Piece',150,50,850,550),
- -> ('P07885','Pull Overs', '2.50', 'Piece', 150,50,850,550),
- -> ('P07868', 'Denim Shirts', '4.00', 'Piece',

100,40,350,250),

- -> ('P07868', 'Lycra Tops', '5.00', 'Piece', 70,30,300,175),
- -> ('P07868', 'Skirts', '5.00', 'Piece', 75,30,450,300**);**

Output:

Query OK, 9 rows affected (0.01 sec)

Command:

SELECT * FROM Product_Master;

ProductNo	ProductName	Quantity	Piece	QtyOnHand	Tax	CostPrice	SellPrice
 P0001	 T-shirts	5.00	Piece	200	50	350	250
P0345	Shirts	6.00	Piece	150	50	500	350
P06734	Cotton Jeans	5.00	Piece	100	20	600	450
P07865	Jeans	5.00	Piece	100	20	750	500
P07868	Trousers	2.00	Piece	150	50	850	550
P07885	Pull Overs	2.50	Piece	150	50	850	550
P07868	Denim Shirts	4.00	Piece	100	40	350	250
P07868	Lycra Tops	5.00	Piece	70	30	300	175
P07868	Skirts	5.00	Piece	75	30	450	300
rows in set	+ t (0.00 sec)		+	+	·	+	·

c) Command:

INSERT INTO Salesman_Master

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

Output:

Query OK, 4 rows affected (0.01 sec)

Records: 4 Duplicates: 0 Warnings: 0

Command:

SELECT * FROM Salesman_Master;

SalesmanNo	SalesmanName	Address1	Address2	City	PinCode	State	SalAmt	TgttoGet	YtdSales Remarks
S00001 S00002 S00003 S00004	Aman Omkar Raj Ashish	- A/14 65 P-7 A/7	Worli Nariman Bandra Juhu	Mumbai Mumbai Mumbai Mumbai	400002 400001 400032 400044	Maharashtra Maharashtra Maharashtra Maharashtra	3000 3000 3000 3500	100 200 200 200	50 Good 100 Good 100 Good 150 Good
4 rows in set	(0.00 sec)	+	+	+	+	+	+		+

Exercise 3: Exercise on retrieving the data.

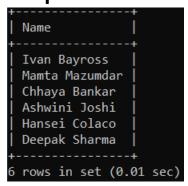
- a) Find out the name of all the clients.
- b) Retrieve the entire contents of the Client_Master table.
- c) Retrieve the list of names, city and the state of all the clients.
- d) List the various products available from the Product Master table.
- e) List all the clients who live in Mumbai.
- f) Find the names of salesman who have a salary equal to Rs. 3000.

Answer:

a) Command:

SELECT Name FROM Client_Master;

Output:



b) Command:

SELECT * FROM Client_Master;

ClientNo	Name	Address1	Address2	City	PinCode	State	BalDue
C00001	Ivan Bayross	Address1	Address2	Mumbai	400001	Maharashtra	15000
C00002	Mamta Mazumdar	Address1	Address2	Madras	780001	Tamil Nadu	0
C00003	Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C00004	Ashwini Joshi	Address1	Address2	Bangalore	560001	Karnataka	0
C00005	Hansei Colaco	Address1	Address2	Mumbai	400060	Maharashtra	2000
C00006	Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0
	+	++		+	+	+	+
rows in s	et (0.00 sec)						

c) Command:

SELECT Name, City, State FROM Client_Master;

Output:

+ Name +	+ City +	++ State
Ivan Bayross Mamta Mazumdar Chhaya Bankar Ashwini Joshi Hansei Colaco Deepak Sharma +	Mumbai Madras Mumbai Bangalore Mumbai Mangalore +	Maharashtra Tamil Nadu Maharashtra Karnataka Maharashtra Karnataka

d) Command:

SELECT ProductName FROM Product_Master;

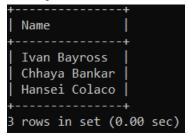
Output:



e) Command:

SELECT Name FROM Client_Master
-> WHERE City = 'Mumbai';

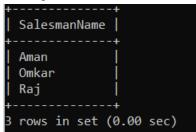
Output:



f) Command:

SELECT SalesmanName FROM Salesman_Master
-> WHERE SalAmt = 3000;

Output:



Exercise 4: Exercise on the updating the records in the table.

- a) Change the city of ClientNo 'C00005' to Banglore.
- b) Change the BalDue of ClientNo 'C00001' to Rs 1000.
- c) Change the cost price of 'Trousers' to Rs. 950.00.
- d) Change the city of the salesman to Pune.

Answer:

a) Command:

UPDATE Client_Master SET City = 'Bangalore'
-> WHERE ClientNo = 'C00005';

Output:

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

Command:

SELECT * FROM Client_Master;

Output:

ClientNo Name	Address1	Address2	City	PinCode	State	BalDue
C00001 Ivan Bayross C00002 Mamta Mazumdar C00003 Chhaya Bankar C00004 Ashwini Joshi C00005 Hansei Colaco C00006 Deepak Sharma	Address1 Address1 Address1 Address1	Address2 Address2 Address2 Address2 Address2 Address2	Madras Mumbai Bangalore	400001 780001 400057 560001 400060 560050	Maharashtra Tamil Nadu Maharashtra Karnataka Maharashtra Karnataka	15000 0 5000 0 2000

b) Command:

UPDATE Client_Master SET BalDue = 1000
-> WHERE ClientNo = 'C00001';

Output:

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

Command:

SELECT * FROM Client_Master;

Output:

ClientNo	+ Name	+ Address1	Address2	City	PinCode	State	+ BalDue
C00001	Ivan Bayross	Address1	Address2	Mumbai	400001	Maharashtra	1000
C00002	Mamta Mazumdar	Address1	Address2	Madras	780001	Tamil Nadu	j 0 j
C00003	Chhaya Bankar	Address1	Address2	Mumbai	400057	Maharashtra	5000
C00004	Ashwini Joshi	Address1	Address2	Bangalore	560001	Karnataka	0
C00005	Hansei Colaco	Address1	Address2	Bangalore	400060	Maharashtra	2000
C00006	Deepak Sharma	Address1	Address2	Mangalore	560050	Karnataka	0
·	+	+	+	+	+		++
rows in se	et (0.01 sec)						

c) Command:

UPDATE Product_Master SET CostPrice = 950
-> WHERE ProductName = 'Trousers';

Output:

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

Command:

SELECT * FROM Product_Master;

Output:

ProductNo	ProductName	Quantity	Piece	QtyOnHand	Tax	CostPrice	SellPrice
P0001	T-shirts	5.00	Piece	200	 50	350	250
P0345	Shirts	6.00	Piece	150	50	500	350
P06734	Cotton Jeans	5.00	Piece	100	20	600	450
P07865	Jeans	5.00	Piece	100	20	750	500
P07868	Trousers	2.00	Piece	150	50	950	550
P07885	Pull Overs	2.50	Piece	150	50	850	550
P07868	Denim Shirts	4.00	Piece	100	40	350	250
P07868	Lycra Tops	5.00	Piece	70	30	300	175
P07868	Skirts	5.00	Piece	75	30	450	300

d) Command:

UPDATE Salesman_Master SET City = 'Pune';

Output:

Query OK, 4 rows affected (0.01 sec)

Rows matched: 4 Changed: 4 Warnings: 0

Command:

SELECT * FROM Salesman_Master;

SalesmanNo	SalesmanName	+ Address1	Address2	City	PinCode	State	SalAmt	TgttoGet	YtdSales	Remarks
S00001 S00002 S00003 S00004	Aman Omkar Raj Ashish	A/14 65 P-7 A/7	Worli Nariman Bandra Juhu	Pune Pune Pune Pune	400002 400001 400032 400044	Maharashtra Maharashtra Maharashtra Maharashtra	3000 3000 3000 3500	100 200 200 200	50 100 100 150	Good Good Good Good