EXPERIMENT NO:- 01

OBJECTIVE: To understand the concept of designing issue related to the database with creating, populating the tables. Also familiarize students with different ways of manipulation in database.

• CREATE THE TABLE DESCRIBED:

Table name: CLIENT_MASTER

Description: used to store client information.

Column name	data type	Size
CLIENTNO	Varchar	6
NAME	Varchar	20
ADDRESS 1	Varchar	30
ADDRESS 2	Varchar	30
CITY	Varchar	15
PINCODE	Integer	
STATE	Varchar	15
BALDUE	Decimal	10,2

```
Run SQL Command Line

SQL*Plus: Release 11.2.0.2.0 Production on Fri Aug 14 07:11:06 2020

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SQL> connect
Enter user-name: system
Enter password:
Connected.

SQL> create table client_master (ClientNo varchar(6),

2 Name varchar(20),

3 Address1 varchar(30),

4 Address2 varchar(30),

5 City varchar(20),

6 PinCode int,

7 State varchar(20),

8 BailDue int);

Table created.
```

Table Name: PRODUCT_MASTER

Description: used to store product information

Column name	data type	Size
PRODUCTNO	Varchar	6
DESCRIPTION	Varchar	15
PROFITPERCENT	Decimal	4,2
UNIT MEASURE	Varchar	10
QTYONHAND	Integer	
REORDERL VL	Integer	
SELLPRICE	Decimal	8,2
COSTPRICE	Decimal	8,2

```
SQL> create table PRODUCT_MASTER (PRODUCTNO varchar(6),
2 description varchar(15),
3 profitpercent int,
4 unitmeasure varchar(10),
5 qtyonhand int,
6 reorderlvl int,
7 sellprice int,
8 costprice int);

Table created.

SQL>
```

Table Name: SALESMAN_MASTER

Description: Used to store salesman information working for the company.

Column name	data type	Size
SALESMANNO	Varchar	6
SALESMANNAME	Varchar	20
ADDRESS 1	Varchar	30
ADDRESS 2	Varchar	30
CITY	Varchar	20
PINCODE	Integer	
STATE	Varchar	20
SALAMT	Real	
TGTTOGET	Decimal	
YTDSALES	Double	6,2
REMARKS	Varchar	60

```
SQL> create table salesman_MASTER (salesmanNO varchar(6),
2 salesmanname varchar(20),
3 address1 varchar(30),
4 address2 varchar(30),
5 city varchar(20),
6 pincode int,
7 state varchar(20),
8 salamt int,
9 tyttoget int,
10 ytdsales int,
11 remarks varchar(60));

Table created.
```

• Insert the following data into their respective tables:

• Data for **CLIENT_MASTER** table:

Client no	Name	City	Pincode	State	BalDue
C00001	Ivan bayross	Mumbai	400054	Maharashtra	15000
C00002	Mamta muzumdar	Madras	780001	Tamil nadu	0
C00003	Chhaya bankar	Mumbai	400057	Maharashtra	5000
C00004	Ashwini joshi	Bangalore	560001	Karnataka	0
C00005	Hansel colaco	Mumbai	400060	Maharashtra	2000
C00006	Deepak sharma	Mangalore	560050	Karnataka	0

```
SQL> insert into client_master values('C00001','Ivan Bayross','Address1','Address2','Mumbai',400054,'Maharashtra',15000);

1 row created.

SQL> insert into client_master values('C00002','Mamta Muzumdar','Address1','Address2','Madras',780001,'Tamil Nadu',0);

1 row created.

SQL> insert into client_master values('C00003','Chhaya Bankar','Address1','Address2','Mumbai',400057,'Maharashtra',5000);

1 row created.

SQL> insert into client_master values('C00004','Ashwini Joshi','Address1','Address2','Bangalore',560001,'Karnataka',0);

1 row created.

SQL> insert into client_master values('C00005','Hansei Colaco','Address1','Address2','Mumbai',400060,'Maharashtra',2000);

1 row created.

SQL> insert into client_master values('C00006','Deepak Sharma','Address1','Address2','Mangalore',560050,'Karnataka',0);

1 row created.

SQL> insert into client_master values('C00006','Deepak Sharma','Address1','Address2','Mangalore',560050,'Karnataka',0);
```

• Data for **PRODUCT_MASTER** table:

Product	Description	Profit	Unit	Quantity	Recorder	Sell	Cost
No		percent	measure	On	Level	Price	Price
				hand			
P00001	T-Shirt	5	Piece	200	50	350	250
P0345	Shirts	6	Piece	150	50	500	350
P06734	Cotton jeans	5	Piece	100	20	600	450
P07865	Jeans	5	Piece	100	20	750	500
P07868	Trousers	2	Piece	150	50	850	550
P07885	Pull Overs	2.5	Piece	80	30	700	450
P07965	Denim jeans	4	Piece	100	40	350	250

P07975	Lycra tops	5	Piece	70	30	300	175	
P08865	Skirts	5	Piece	75	30	450	300	

```
SQL> insert into product_master values('P00001','T-Shirts', 5, 'Piece', 200, 50,
 350, 250);
l row created.
SQL> insert into product_master values('P0345','Shirts', 6, 'Piece', 150, 50, 50
0, 350);
1 row created.
SQL> insert into product_master values('P06734','Cotton Jeans', 5, 'Piece', 100,
 20, 600, 450);
 row created.
SQL> insert into product_master values('P07865','Jeans', 5, 'Piece', 100, 20, 75
0, 500);
1 row created.
SQL> insert into product_master values('P07868','Trousers', 2, 'Piece', 150, 50,
850, 550);
l row created.
SQL> insert into product_master values('P07885','Pull Overs', 2.5, 'Piece',80 , 30, 700, 450);
1 row created.
SQL> insert into product_master values('P07868','Denim Shirts', 4, 'Piece', 100,
 40, 350, 250);
1 row created.
SQL> insert into product_master values('P07868','Lycra Tops', 5, 'Piece', 70, 30
, 300, 175);
1 row created.
SQL> insert into product_master values('P07868','Skirts', 5, 'Piece', 75, 30, 45
0, 300);
1 row created.
sqL>
```

501.5	Run SC	QL Command	Line		- 🗇 ×
SQL> select * from l	PRODUCT_Master;				^
PRODUC DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRICE
COSTPRICE					
P00001 T-Shirts	5	Piece	200	50	350
250					
P0345 Shirts	6	Piece	150	50	500
350					
P06734 Cotton Jeans	5	Piece	100	20	600
450					
PRODUC DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRICE
COSTPRICE					
P07865 Jeans	5	Piece	100	20	750
500					
P07868 Trousers	2	Piece	150	50	850
550					
P07885 Pull Overs	3	Piece	80	30	700
450					
PRODUC DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRI CE
COSTPRICE					
P07868 Denim Shirts	4	Piece	100	40	350
250					
P07868 Lycra Tops	5	Piece	70	30	300
175					
P07868 Skirts	5	Piece	75	30	450
300					V

• Data for **SALESMAN_MASTER** table:

Salesman No	Name	Address1	Address2	City	Pin Code	State

S00001	Aman	A/14	Worli	Mumbai	400002	Maharashtra
S00002	Omkar	65	Nariman	Mumbai	400001	Maharashtra
S00003	Raj	P-7	Bandra	Mumbai	400032	Maharashtra
S00004	Ashish	A/5	Juhu	Mumbai	400044	Maharashtr(a

```
SQL> insert into salesman_master values('S00001','Aman','A/14','Worli','Mumbai', 400002,'Maharashtra',3000,100,50,'Good');

1 row created.

SQL>
SQL>
SQL> insert into salesman_master values('S00002','Omkar','65','Nariman','Mumbai', 40001,'Maharashtra',3000,200,100,'Good'

2 );

1 row created.

SQL>
SQL> insert into salesman_master values('S00003','Raj','P-7','Bandra','Mumbai', 400032,'Maharashtra',3000,200,100,'Good');

1 row created.

SQL>
SQL> insert into salesman_master values('S00004','Ashish','A/5','Juhu','Mumbai', 400044,'Maharashtra',3500,200,150,'Good');

1 row created.

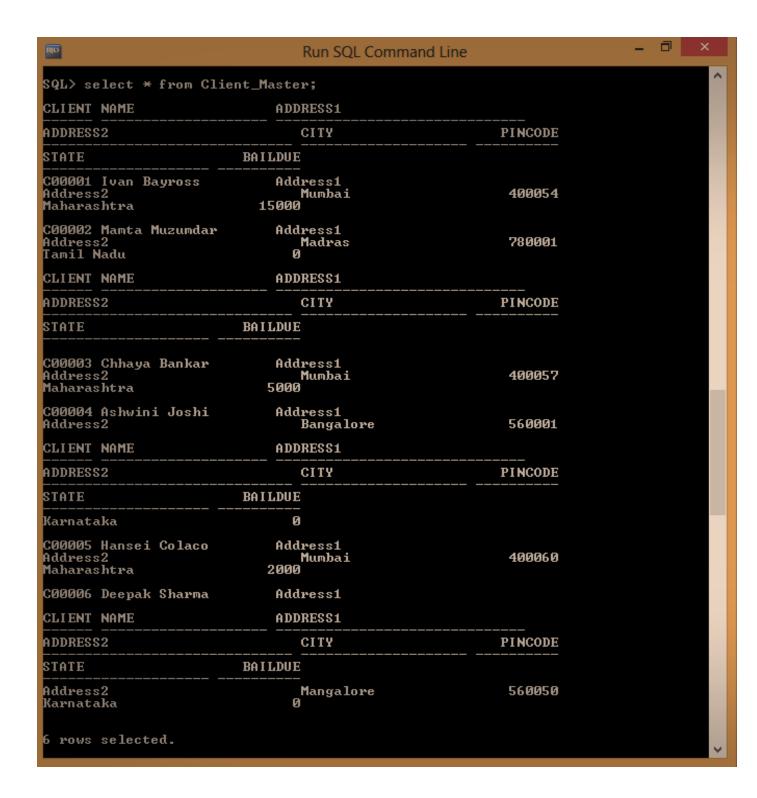
SQL>
1 row created.

SQL>
SQL>
```

SQL	R	lun SQL Comn	nand Line		-	Х
SQL> select * from SAL	ESMAN_Mast	er;				
SALESM SALESMANNAME	ADDR	ESS1				
ADDRESS2	С	I TY		PINCODE		
STATE	SALAMT	TGTTOGET	YTDSALES			
REMARKS						
 300001 Aman Vorli	A/14			400002		
worll Maharashtra Good	3000	umbai 100	50	400002		
SALESM SALESMANNAME	ADDR	ESS1				
DDDRESS2	C	ITY		PINCODE		
STATE 	SALAMT	TGTTOGET	YTDSALES			
REMARKS						
00002 Omkar Jariman	65 M	umbai		400001		
laharashtra Good	3000		100	100001		
SALESM SALESMANNAME	ADDR	ESS1				
ADDRESS2	с	ITY		PINCODE		
TATE	SALAMT	TGTTOGET	YTDSALES			
REMARKS						
00003 Raj	P-7			400032		
landra aharashtra	3000 n	umbai 200	100	400032		
ood						
ALESM SALESMANNAME	ADDR	ESS1				
DDRESS2	C	ITY		PINCODE		
TATE	SALAMT	TGTTOGET	YTDSALES			
REMARKS						
00004 Ashish	A/5					
luhu laharashtra	M 3500	umbai 200	150	400044		
lood						

a. Find out the names 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.

SQL> select Name, (City, State from c	lient_master;	
NAME	CITY	STATE	
Ivan Bayross Mamta Muzumdar Chhaya Bankar Ashwini Joshi Hansei Colaco Deepak Sharma 6 rows selected. SQL>	Mumbai Madras Mumbai Bangalore Mumbai Mangalore	Maharashtra Tamil Nadu Maharashtra Karnataka Maharashtra Karnataka	

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



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

CLIENT NAME	ADDRESS1	
ADDRESS2	CITY	PINCODE
STATE		
C00001 Ivan Bayross Address2 Maharashtra	Address1 Mumbai 15000	400054
C00003 Chhaya Bankar Address2 Maharashtra	Address1 Mumbai 5000	400057
CLIENT NAME	ADDRESS1	
ADDRESS2	CITY	
	BAILDUE	
C00005 Hansei Colaco Address2 Maharashtra SQL>	Address1 Mumbai 2000	400060

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

```
SQL> select SalesmanName from salesman_master where SalAmt = 3000;

SALESMANNAME

Aman
Omkar
Raj

SQL>
```

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

SQL> update client_master set City = 'Bangalore' where ClientNo = 'C00005'; 1 row updated.

<u>sars</u>	Run SQL Com	nmand Line	_ □ ×
SQL> select * from clic	ent_master;		^
CLIENT NAME	ADDRESS1		
ADDRESS2	CITY	PINCODE	
STATE	BAILDUE		
C00001 Ivan Bayross Address2 Maharashtra	Mountani	400054	
C00002 Mamta Muzumdar Address2 Tamil Nadu	Address1 Madras 0	780001	
CLIENT NAME	ADDRESS1		
ADDRESS2	CITY	PINCODE	
STATE	BAILDUE		
C00003 Chhaya Bankar Address2 Maharashtra	Address1 Mumbai 5000	400057	
C00004 Ashwini Joshi Address2	Address1 Bangalore	560001	
CLIENT NAME	ADDRESS1		
ADDRESS2	CITY	PINCODE	
STATE	BAILDUE		
Karnataka	0		
C00005 Hansei Colaco Address2 Maharashtra	Address1 Bangalore 2000	400060	
C00006 Deepak Sharma	Address1		
CLIENT NAME	ADDRESS1		
ADDRESS2	CITY	PINCODE	
STATE	BAILDUE		
Address2 Karnataka	Mangalore 0	560050	
6 rows selected.			
SQL>			~

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

```
SQL> update client_master set BailDue = 1000 where ClientNo = 'C00001';

1 row updated.

SQL>
```

6 rows selected.

SQL>

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

```
SQL> update product_master set CostPrice = 950 where DESCRIPTION = 'Trousers';

1 row updated.

SQL>
```

Run SQL Command Line							
SQL> select * from PRODUCT_master;							
PRODUC	DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRICE	
COSTPI	RICE					_	
P00001	T-Shirts	5	Piece	200	50	350	
	250						
PØ345	Shirts	6	Piece	150	50	500	
	350						
PØ6734	Cotton Jeans	5	Piece	100	20	600	
	450						
PRODUC	DESCRIPTION	PROFI T PERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRICE	
COSTPI	RICE						
P07865	Jeans	5	Piece	100	20	750	
	500						
PØ7868	Trousers	2	Piece	150	50	850	
	950						
P07885	Pull Overs	3	Piece	80	30	700	
	450						
PRODUC	DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRI CE	
COSTPI	RICE						
PØ7868	Denim Shirts	4	Piece	100	40	350	
	250						
PØ7868	Lycra Tops	5	Piece	70	30	300	
	175						
P07868	Skirts	5	Piece	75	30	450	
	300					~	

d. Change the city of the salesman to Pune.

```
SQL> update salesman_master set City = 'Pune';
4 rows updated.
SQL>
```

SQL Select * from SALESMAN_master; SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET YTDSALES SEMARKS SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET YTDSALES SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET YTDSALES SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET YTDSALES SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE SALAMT TGTTOGET YTDSALES
DDRESS2
STATE
REMARKS 199001 Aman
Apple
Norli
Maharashtra Good SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET SALAMT TGTTOGET ADDRESS SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET ADDRESS1 ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET ADDRESS3 ADDRESS2 CITY PUNCODE STATE SALAMT TGTTOGET ADDRESS3 ADDRESS
SALESMANNAME ADDRESS1 PINCODE
ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET YTDSALES REMARKS G00002 Omkar Maharashtra Good GALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE REMARKS G00003 Raj Pune Galamt TGTTOGET YTDSALES REMARKS G00003 Raj Pune Galamt TGTTOGET YTDSALES REMARKS G00003 Raj Pune Galamtra Good GALESM SALESMANNAME ADDRESS1 GOODOG GALESM SALESMANNAME ADDRESS2 CITY PINCODE GALESM SALESMANNAME ADDRESS2 CITY PINCODE
SALAMT TGTTOGET YTDSALES
REMARKS ### S00002 Omkar
SOURCE S
Hariman Pune 400001 Haharashtra 3000 200 100 Haharashtra 3000 200 100 Halarashtra 3000 200 100 Halarashtra Address1 Halarashtra Salami i i i i i i i i i i i i i i i i i i
Alesm Salesmanname address1 Address2 CITY PINCODE STATE SALAMT TGTTOGET YTDSALES REMARKS S00003 Raj P-7 Bandra Pune 400032 Alaharashtra 3000 200 100 SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE
ADDRESS2 CITY PINCODE STATE SALAMT TGTTOGET YTDSALES REMARKS S00003 Raj P-7 Bandra Pune 400032 Maharashtra 3000 200 100 SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE
CITY PINCODE STATE SALAMT TGTTOGET YTDSALES REMARKS 30003 Raj P-7 Bandra Pune 400032 Maharashtra 3000 200 100 SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE
STATE SALAMT TGTTOGET YTDSALES REMARKS 30003 Raj P-7 Bandra Pune 400032 Maharashtra 3000 200 100 SALESM SALESMANNAME ADDRESS1 DDRESS2 CITY PINCODE
REMARKS 30003 Raj P-7 3andra Pune 400032 4aharashtra 3000 200 100 3alesm salesmanname Address1 Address2 CITY PINCODE
P-7 A0003 Raj P-7 A00032 Andra Pune A00032 Andrashtra 3000 200 100 Andrashtra ADDRESS1 ADDRESS2 CITY PINCODE
Bandra Pune 400032 Maharashtra 3000 200 100 Galesm Salesmanname Address1 Address City Pincode
Aaharashtra 3000 200 100 Good GALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE
SALESM SALESMANNAME ADDRESS1 ADDRESS2 CITY PINCODE
ADDRESS2 CITY PINCODE
STATE SALAMT TGTTOGET YTDSALES
REMARKS
00004 Ashish A/5
Juhu Pune 400044 Jaharashtra 3500 200 150
Good

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

```
SQL> delete from salesman_master where SalAmt = 3500;

1 row deleted.

SQL>
```

SALESM SALESMANNAME	anne	FCC1		
ADDRESS2 	C:	[T Y 		PINCODE
STATE	SALAMT	TGTTOGET	YTDSALES	
REMARKS				
S00001 Aman	A/14			400000
Worli Maharashtra	3000 3000	ine 100	50	400002
Good				
SALESM SALESMANNAME	ADDR	ESS1		
ADDRESS2	C:	. TY		PINCODE
STATE	SALAMT	TGTTOGET	YTDSALES	
REMARKS				
 \$00002 Omkar	65			
Nariman Maharashtra	3000 Pu	.ne 200	100	400001
Good				
SALESM SALESMANNAME	ADDR	ESS1		
ADDRESS2	C	ITY		PINCODE
STATE	SALAMT	TGTTOGET	YTDSALES	
REMARKS				
 §00003 Raj	P-7			400000
Bandra Maharashtra	3000 P	.ne 200	100	400032
Good				
sqL>				
34TA				

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

```
SQL> delete from product_master where QtyOnHand = 100;
3 rows deleted.
SQL>
```

PRODUC	DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRICE
COSTPR	I CE					
90001	 T-Shirts	5	Piece	200	50	350
	250					
PØ345	Shirts	6	Piece	150	50	500
	350					
PØ7868	Trousers	2	Piece	150	50	850
	950					
PRODUC	DESCRIPTION	PROFITPERCENT	UNITMEASUR	QTYONHAND	REORDERLUL	SELLPRICE
COSTPR	ICE					
² 07885	 Pull Overs	3	Piece	80	30	700
	450					
907868	Lycra Tops	5	Piece	70	30	300
	175					
997868	Skirts	5	Piece	75	30	450
	300					
rows	selected.					
QL>						

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

```
SQL> delete from client_master where State = 'Tamil Nadu';
1 row deleted.
SQL>
```

CLIENT NAME	ADDRESS1	
DDRESS2	CITY	PINCODE
TATE	BA I LDUE	
00001 Ivan Bayross Iddress2 Iaharashtra	Address1 Mumbai 1000	400054
00003 Chhaya Bankar Iddress2 Iaharashtra	Address1 Mumbai 5000	400057
CLIENT NAME	ADDRESS1	
DDRESS2	CITY	PINCODE
:00004 Ashwini Joshi Iddress2 Karnataka		560001
00005 Hansei Colaco Iddress2	Address1 Bangalore	400060
CLIENT NAME	ADDRESS1	
DDRESS2	CITY	PINCODE
STATE		
laharashtra	2000	
00006 Deepak Sharma Iddress2 Karnataka	Address1 Mangalore O	560050

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

```
SQL> alter table client_master add Telephone int;
Table altered.
SQL>
```

CLIENT NAME	ADDRESS1	
ADDRESS2	CITY	PINCODE
STATE	BAILDUE TELEPHONE	
C00001 Ivan Bayross Address2 Maharashtra	Address1 Mumbai 1000	400054
C00003 Chhaya Bankar Address2 Maharashtra	Address1 Mumbai 5000	400057
CLIENT NAME	ADDRESS1	
ADDRESS2	CITY	PINCODE
STATE	BAILDUE TELEPHONE	
C00004 Ashwini Joshi Address2 Karnataka	Address1 Bangalore O	560001
C00005 Hansei Colaco Address2	Address1 Bangalore	400060
CLIENT NAME	ADDRESS1	
ADDRESS2	CITY	PINCODE
STATE	BAILDUE TELEPHONE	
Maharashtra	 2000	
COOOO6 Deepak Sharma Address2 Karnataka	Address1 Mangalore 0	560050
sqL>		

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

```
SQL> alter table product_master modify SellPrice INT;
Table altered.
SQL>
```

a. Destroy the table Client_Master along with its data.

```
SQL> drop table client_master;

Table dropped.

SQL>
```

```
SQL> select * from client_master;
select * from client_master

*
ERROR at line 1:
ORA-00942: table or view does not exist

SQL>
```

• a. Change the name of the Salesman_Master to sman_mast.

SQL> alter table salesm	nan_master	rename to	sman_mast;	
Table altered.				
SQL> select * from SMAN	l_mast;			
SALESM SALESMANNAME	ADDRI	ESS1		
ADDRESS2	C	[TY		PINCODE
STATE	SALAMT			
REMARKS				
S00001 Aman Worli Maharashtra Good	A/14 Pt 3000	une 100	50	 400002
SALESM SALESMANNAME	ADDRI	ESS1		
ADDRESS2	C	[TY		PINCODE
STATE	SALAMT	TGTTOGET	YTDSALES	
REMARKS				
S00002 Omkar Nariman Maharashtra Good	65 Pi 3000	une 200	100	 400001
SALESM SALESMANNAME	ADDRI	ESS1		
ADDRESS2	CITY			PINCODE
STATE	SALAMT	TGTTOGET	YTDSALES	
REMARKS				
S00003 Raj Bandra Maharashtra Good	P-7 Pi 3000	une 200	100	 400032