

PRACTICAL 1

**Title:** To understand DDL and DML commands  
**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.

1. Create the tables described below:

1.A. 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

1.A (solution):

```
create table CLIENT_MASTER (  
  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)  
);
```

## 1.A (solution):

The screenshot shows the Live SQL web interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (highlighted), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a code editor with the following SQL script:

```
1 create table CLIENT_MASTER (  
2   CLIENTNO varchar(6),  
3   NAME varchar(20),  
4   ADDRESS_1 varchar(30),  
5   ADDRESS_2 varchar(30),  
6   CITY varchar(15),  
7   PINCODE integer,  
8   STATE varchar(15),  
9   BALDUE decimal(10, 2)  
10 );
```

Below the code editor, a message states 'Table created.' The top right of the interface includes links for Feedback, Help, and a user profile. Action buttons for Clear, Find, Actions, Save, and Run are also present.

At the bottom, the footer contains the Oracle logo, 'Integrated Cloud Applications & Platform Services', copyright information for 2020, and links to the Oracle Learning Library, Ask Tom, Dev Gym, and Database Doc. It also mentions 'Live SQL 20.3.1, running Oracle Database 19c Enterprise Edition - 19.5.0.0.0' and 'Built with ❤️ using Oracle APEX'.

## 1.B. 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	-
REORDER_VL	integer	-
SELLPRICE	decimal	8,2
COSTPRICE	decimal	8,2

### 1.B.(solution)

```
CREATE TABLE PRODUCT_MASTER (  
  PRODUCTNO varchar(6),  
  DESCRIPTION varchar(15),  
  PROFITPERCENT decimal(4, 2),  
  UNIT_MEASURE varchar(10),  
  QTYONHAND integer,  
  RECORDER_LVL integer,  
  SELLPRICE decimal(8, 2),  
  COSTPRICE decimal(8, 2)  
);
```

The screenshot shows the 'Live SQL' web application interface. At the top, there's a navigation bar with 'Live SQL' and user information. Below it, the 'SQL Worksheet' section contains the SQL code for creating the 'PRODUCT\_MASTER' table. The code is as follows:

```
1 CREATE TABLE PRODUCT_MASTER (  
2   PRODUCTNO varchar(6),  
3   DESCRIPTION varchar(15),  
4   PROFITPERCENT decimal(4, 2),  
5   UNIT_MEASURE varchar(10),  
6   QTYONHAND integer,  
7   RECORDER_LVL integer,  
8   SELLPRICE decimal(8, 2),  
9   COSTPRICE decimal(8, 2)  
10 );
```

Below the code editor, a message box displays 'Table created.', indicating the successful execution of the SQL statement. The footer of the interface includes Oracle branding, copyright information (© 2020 Oracle Corporation), and links to various resources like the Oracle Learning Library and Dev Gym.

### 1.C. 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

1.C.(solution)

```
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(6, 2),
  YTDSALES float,
  REMARKS varchar(60)
);
```

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```

1 CREATE TABLE SALESMAN_MASTER (
2   SALESMANNO varchar(6),
3   SALESMANNAME varchar(20),
4   ADDRESS1 varchar(30),
5   ADDRESS2 varchar(30),
6   CITY varchar(20),
7   PINCODE integer,
8   STATE varchar(20),
9   SALAMT real,
10  TGTTOGET decimal(6, 2),
11  YTDSALES float,
12  REMARKS varchar(60)
13 );
```

Table created.

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2. Insert the following data into their respective tables:

2.A. 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

2.A.(solution)

INSERT INTO CLIENT\_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)  
VALUES ('C00001', 'Ivan Bayross', 'Mumbai', 400054, 'Maharashtra', 15000);

INSERT INTO CLIENT\_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)  
VALUES ('C00002', 'Mamta Muzumdar', 'Madras', 780001, 'Tamil Nadu', 0);

INSERT INTO CLIENT\_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)  
VALUES ('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000);

INSERT INTO CLIENT\_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)  
VALUES ('C00004', 'Ashwini Joshi', 'Bangalore', 560001, 'Karnataka', 0);

INSERT INTO CLIENT\_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)  
VALUES ('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000);

INSERT INTO CLIENT\_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)  
VALUES ('C00006', 'Deepak Sharma', 'Mangalore', 560050, 'Karnataka', 0);

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```

1 INSERT INTO CLIENT_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)
2 VALUES ('C00001', 'Ivan Bayross', 'Mumbai', 400054, 'Maharashtra', 15000);
3
4 INSERT INTO CLIENT_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)
5 VALUES ('C00002', 'Mamta Muzumdar', 'Madras', 780001, 'Tamil Nadu', 0);
6
7 INSERT INTO CLIENT_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)
8 VALUES ('C00003', 'Chhaya Bankar', 'Mumbai', 400057, 'Maharashtra', 5000);
9
10 INSERT INTO CLIENT_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)
11 VALUES ('C00004', 'Ashwini Joshi', 'Bangalore', 560001, 'Karnataka', 0);
12
13 INSERT INTO CLIENT_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)
14 VALUES ('C00005', 'Hansel Colaco', 'Mumbai', 400060, 'Maharashtra', 2000);
15
16 INSERT INTO CLIENT_MASTER (CLIENTNO, NAME, CITY, PINCODE, STATE, BALDUE)
17 VALUES ('C00006', 'Deepak Sharma', 'Mangalore', 560050, 'Karnataka', 0);

```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

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## 2.B. Data for PRODUCT\_MASTER table:

Product No	Description	Profit percent	Unit Measure	Quantity on hand	Recorder Level	Sell Price	Cost Price
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

## 2.B.(solution)

```

INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND,
RECORDER_LVL, SELLPRICE, COSTPRICE)
VALUES ('P00001', 'T-Shirt', 5, 'Piece', 200, 50, 350, 250);

```

```

INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND,
RECORDER_LVL, SELLPRICE, COSTPRICE)
VALUES ('P0435', 'Shirts', 6, 'Piece', 150, 50, 500, 350);

```

```
INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND,
RECORDER_LVL, SELLPRICE, COSTPRICE)
VALUES ('P06734', 'Cotton Jeans', 5, 'Piece', 100, 20, 600, 450);
```

```
INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND,
RECORDER_LVL, SELLPRICE, COSTPRICE)
VALUES ('P07865', 'Jeans', 5, 'Piece', 100, 20, 750, 500);
```

```
INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND,
RECORDER_LVL, SELLPRICE, COSTPRICE)
VALUES ('P07868', 'Trousers', 2, 'Piece', 150, 50, 850, 550);
```

```
INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND,
RECORDER_LVL, SELLPRICE, COSTPRICE)
VALUES ('P07885', 'Pull Overs', 2.5, 'Piece', 80, 30, 700, 450);
```

```
INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND,
RECORDER_LVL, SELLPRICE, COSTPRICE)
VALUES ('P07965', 'Denim Jeans', 4, 'Piece', 100, 40, 350, 250);
```

```
INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND,
RECORDER_LVL, SELLPRICE, COSTPRICE)
VALUES ('P07975', 'Lycra tops', 5, 'Piece', 70, 30, 300, 175);
```

```
INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND,
RECORDER_LVL, SELLPRICE, COSTPRICE)
VALUES ('P08865', 'Skirts', 5, 'Piece', 75, 30, 450, 300);
```

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```
1 INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND, RECORDER_LVL, SELLPRICE, COSTPRICE)
2 VALUES ('P00001', 'T-Shirt', 5, 'Piece', 200, 50, 350, 250);
3
4 INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND, RECORDER_LVL, SELLPRICE, COSTPRICE)
5 VALUES ('P0435', 'Shirts', 6, 'Piece', 150, 50, 500, 350);
6
7 INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND, RECORDER_LVL, SELLPRICE, COSTPRICE)
8 VALUES ('P06734', 'Cotton Jeans', 5, 'Piece', 100, 20, 600, 450);
9
10 INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND, RECORDER_LVL, SELLPRICE, COSTPRICE)
11 VALUES ('P07865', 'Jeans', 5, 'Piece', 100, 20, 750, 500);
12
13 INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND, RECORDER_LVL, SELLPRICE, COSTPRICE)
14 VALUES ('P07868', 'Trousers', 2, 'Piece', 150, 50, 850, 550);
15
16 INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND, RECORDER_LVL, SELLPRICE, COSTPRICE)
17 VALUES ('P07885', 'Pull Overs', 2.5, 'Piece', 80, 30, 700, 450);
18
19 INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND, RECORDER_LVL, SELLPRICE, COSTPRICE)
20 VALUES ('P07965', 'Denim Jeans', 4, 'Piece', 100, 40, 350, 250);
21
22 INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND, RECORDER_LVL, SELLPRICE, COSTPRICE)
23 VALUES ('P07975', 'Lycra tops', 5, 'Piece', 70, 30, 300, 175);
24
25 INSERT INTO PRODUCT_MASTER (PRODUCTNO, DESCRIPTION, PROFITPERCENT, UNIT_MEASURE, QTYONHAND, RECORDER_LVL, SELLPRICE, COSTPRICE)
26 VALUES ('P08865', 'Skirts', 5, 'Piece', 75, 30, 450, 300);
27
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

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## 2.C. Data for SALESMAN\_MASTER table:

Salesman No	Name	Address1	Address2	City	PinCode	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	Maharashtra

### 2.C.(solution)

```
INSERT INTO SALESMAN_MASTER (SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE)
```

```
VALUES ('S00001', 'Aman', 'A/14', 'Worli', 'Mumbai', 400002, 'Maharashtra');
```

```
INSERT INTO SALESMAN_MASTER (SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE)
```

```
VALUES ('S00002', 'Omkar', '65', 'Nariman', 'Mumbai', 400001, 'Maharashtra');
```

```
INSERT INTO SALESMAN_MASTER (SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE)
```

```
VALUES ('S00003', 'Raj', 'P-7', 'Bandra', 'Mumbai', 400032, 'Maharashtra');
```

```
INSERT INTO SALESMAN_MASTER (SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE)
```

```
VALUES ('S00004', 'Ashish', 'A/5', 'Juhu', 'Mumbai', 400044, 'Maharashtra');
```

≡

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```
1 INSERT INTO SALESMAN_MASTER (SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE)
2 VALUES ('S00001', 'Aman', 'A/14', 'Worli', 'Mumbai', 400002, 'Maharashtra');
3
4 INSERT INTO SALESMAN_MASTER (SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE)
5 VALUES ('S00002', 'Omkar', '65', 'Nariman', 'Mumbai', 400001, 'Maharashtra');
6
7 INSERT INTO SALESMAN_MASTER (SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE)
8 VALUES ('S00003', 'Raj', 'P-7', 'Bandra', 'Mumbai', 400032, 'Maharashtra');
9
10 INSERT INTO SALESMAN_MASTER (SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, STATE)
11 VALUES ('S00004', 'Ashish', 'A/5', 'Juhu', 'Mumbai', 400044, 'Maharashtra');
12
```

1 row(s) inserted.

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### 3. Exercise on retrieving records from a table.

3.A. Find out the names of all the clients.

3.A.(solution)

SELECT NAME FROM CLIENT\_MASTER;

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1 SELECT NAME FROM CLIENT\_MASTER;

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

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3.B. Retrieve the entire contents of the Client\_Master table.

3.B.(solution): SELECT \* FROM CLIENT\_MASTER;

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1 SELECT \* FROM CLIENT\_MASTER;

CLIENTNO	NAME	ADDRESS_1	ADDRESS_2	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

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

3.C.(solution)

```
SELECT NAME, CITY, STATE FROM CLIENT_MASTER;
```

The screenshot shows the Live SQL interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a text editor with the query: `1 SELECT NAME, CITY, STATE FROM CLIENT_MASTER;`. Below the editor, a table displays the results of the query:

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

Below the table, it says 'Download CSV' and '6 rows selected.' The footer of the interface includes the Oracle logo, 'Integrated Cloud Applications & Platform Services', copyright information for 2020, and links to Oracle Learning Library, Ask Tom, Dev Gym, and Database Doc. It also mentions 'Live SQL 20.3.1, running Oracle Database 19c Enterprise Edition - 19.5.0.0.0' and 'Built with ❤️ using Oracle APEX'.

3.D. List the various products available from the Product\_Master table.

3.D.(solution): `SELECT DESCRIPTION FROM PRODUCT_MASTER;`

The screenshot shows the Live SQL interface. On the left is a dark sidebar with navigation links: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a text editor with the query: `1 SELECT DESCRIPTION FROM PRODUCT_MASTER;`. Below the editor, a table displays the results of the query:

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

Below the table, it says 'Download CSV' and '9 rows selected.' The footer of the interface includes the Oracle logo, 'Integrated Cloud Applications & Platform Services', copyright information for 2020, and links to Oracle Learning Library, Ask Tom, Dev Gym, and Database Doc. It also mentions 'Live SQL 20.3.1, running Oracle Database 19c Enterprise Edition - 19.5.0.0.0' and 'Built with ❤️ using Oracle APEX'.

3.E. List all the clients who are located in Mumbai.

3.E.(solution)

```
SELECT NAME FROM CLIENT_MASTER  
WHERE CITY = 'Mumbai';
```

The screenshot shows the Live SQL interface. The left sidebar contains navigation options: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a code editor with the following SQL query:

```
1 SELECT NAME FROM CLIENT_MASTER  
2 WHERE CITY = 'Mumbai';
```

Below the code editor, the results are displayed in a table with one column, 'NAME'. The results are:

NAME
Ivan Bayross
Chhaya Bankar
Hansel Colaco

Below the table, there is a 'Download CSV' link and the text '3 rows selected.'.

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3.F. Find the names of salesman who have lives in Bandra.

3.F.(solution)

```
SELECT SALESMANNAME, ADDRESS2 FROM SALESMAN_MASTER  
WHERE ADDRESS2 = 'Bandra';
```

The screenshot shows the Live SQL interface. The left sidebar contains navigation options: Home, SQL Worksheet (selected), My Session, Schema, Quick SQL, My Scripts, My Tutorials, and Code Library. The main area is titled 'SQL Worksheet' and contains a code editor with the following SQL query:

```
1 SELECT SALESMANNAME, ADDRESS2 FROM SALESMAN_MASTER  
2 WHERE ADDRESS2 = 'Bandra';
```

Below the code editor, the results are displayed in a table with two columns, 'SALESMANNAME' and 'ADDRESS2'. The results are:

SALESMANNAME	ADDRESS2
Raj	Bandra

Below the table, there is a 'Download CSV' link.

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## 4. Exercise on updating records in a table

4.A. Change the city of ClientNo 'C00005' to 'Bangalore'.

4.A.(solution)

```
UPDATE CLIENT_MASTER
```

```
SET CITY = 'Bangalore'
```

```
WHERE CLIENTNO = 'C00005';
```

The screenshot shows the Live SQL interface with the following SQL code entered:

```
1 UPDATE CLIENT_MASTER
2 SET CITY = 'Bangalore'
3 WHERE CLIENTNO = 'C00005';
4 SELECT * FROM CLIENT_MASTER;
```

The execution result shows "1 row(s) updated." and a table with 6 rows selected:

CLIENTNO	NAME	ADDRESS_1	ADDRESS_2	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	-	-	Bangalore	400060	Maharashtra	2000
C00006	Deepak Sharma	-	-	Mangalore	560050	Karnataka	0

Download CSV  
6 rows selected.

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4.B. Change the BalDue of ClientNo 'C00001' to Rs.1000.

4.B.(solution)

```
UPDATE CLIENT_MASTER
```

```
SET BALDUE = 1000
```

```
WHERE CLIENTNO = 'C00001';
```

The screenshot shows the Live SQL interface with the following SQL code entered:

```
1 UPDATE CLIENT_MASTER
2 SET BALDUE = 1000
3 WHERE CLIENTNO = 'C00001';
4 SELECT * FROM CLIENT_MASTER;
```

The execution result shows "1 row(s) updated." and a table with 6 rows selected:

CLIENTNO	NAME	ADDRESS_1	ADDRESS_2	CITY	PINCODE	STATE	BALDUE
C00001	Ivan Bayross	-	-	Mumbai	400054	Maharashtra	1000
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	-	-	Bangalore	400060	Maharashtra	2000
C00006	Deepak Sharma	-	-	Mangalore	560050	Karnataka	0

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#### 4.C. Change the cost price of 'Trousers' to rs.950.00.

##### 4.C.(solution)

```
UPDATE PRODUCT_MASTER
SET COSTPRICE = 950.0
WHERE DESCRIPTION = 'Trousers';
```

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```
1 UPDATE PRODUCT_MASTER
2 SET COSTPRICE = 950.0
3 WHERE DESCRIPTION = 'Trousers';
4 SELECT * FROM PRODUCT_MASTER;
```

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNIT_MEASURE	QTYONHAND	RECORDER_LVL	SELLPRICE	COSTPRICE
P00001	T-Shirt	5	Piece	200	50	350	250
P0435	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	950
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

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#### 4.D. Change the city of the salesman to Pune.

##### 4.D.(solution)

```
UPDATE SALESMAN_MASTER
SET CITY = 'Pune';
```

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```
1 UPDATE SALESMAN_MASTER
2 SET CITY = 'Pune';
3 SELECT * FROM SALESMAN_MASTER;
```

4 row(s) updated.

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTGET	YTDSALES	REMARKS
S00001	Aman	A/14	Worli	Pune	400002	Maharashtra	-	-	-	-
S00002	Omkar	65	Nariman	Pune	400001	Maharashtra	-	-	-	-
S00003	Raj	P-7	Bandra	Pune	400032	Maharashtra	-	-	-	-
S00004	Ashish	A/5	Juhu	Pune	400044	Maharashtra	-	-	-	-

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## 5. Exercise on deleting records in a table

5.A. Delete all salesman from the Salesman\_Master whose salaries are equal to Rs.3500.

5.A.(solution)

DELETE FROM SALESMAN\_MASTER

WHERE SALAMT = 3500;      --(SALAMT typo for SALARY)

The screenshot shows the Live SQL interface with the following SQL code entered:

```
1 DELETE FROM SALESMAN_MASTER
2 WHERE SALAMT = 3500;
3 SELECT * FROM SALESMAN_MASTER;
```

The execution results show "0 row(s) deleted." and a table with 4 rows selected:

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTGET	YTDSALES	REMARKS
S00001	Aman	A/14	Worli	Pune	400002	Maharashtra	-	-	-	-
S00002	Omkar	65	Nariman	Pune	400001	Maharashtra	-	-	-	-
S00003	Raj	P-7	Bandra	Pune	400032	Maharashtra	-	-	-	-
S00004	Ashish	A/5	Juhu	Pune	400044	Maharashtra	-	-	-	-

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5.B. Delete all products from Product\_Master where the quantity on hand is equal to 100.

5.B.(solution)

DELETE FROM PRODUCT\_MASTER

WHERE QTYONHAND = 100;

The screenshot shows the Live SQL interface with the following SQL code entered:

```
1 DELETE FROM PRODUCT_MASTER
2 WHERE QTYONHAND = 100;
3 SELECT * FROM PRODUCT_MASTER;
```

The execution results show "3 row(s) deleted." and a table with 6 rows selected:

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNIT_MEASURE	QTYONHAND	RECORDER_LVL	SELLPRICE	COSTPRICE
P00001	T-Shirt	5	Piece	200	50	350	250
P0435	Shirts	6	Piece	150	50	500	350
P07868	Trousers	2	Piece	150	50	850	950
P07885	Pull Overs	2.5	Piece	80	30	700	450
P07975	Lycra tops	5	Piece	70	30	300	175
P08865	Skirts	5	Piece	75	30	450	300

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5.C. Delete from Client\_Master where the column state holds the value 'Tamil Nadu'.

5.C.(solution)  
DELETE FROM CLIENT\_MASTER  
WHERE STATE = 'Tamil Nadu';

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```
1 DELETE FROM CLIENT_MASTER
2 WHERE STATE = 'Tamil Nadu';
3 SELECT * FROM CLIENT_MASTER;
```

1 row(s) deleted.

CLIENTNO	NAME	ADDRESS_1	ADDRESS_2	CITY	PINCODE	STATE	BALDUE
C00001	Ivan Bayross	-	-	Mumbai	400054	Maharashtra	1000
C00003	Chhaya Bankar	-	-	Mumbai	400057	Maharashtra	5000
C00004	Ashwini Joshi	-	-	Bangalore	560001	Karnataka	0
C00005	Hansel Colaco	-	-	Bangalore	400060	Maharashtra	2000
C00006	Deepak Sharma	-	-	Mangalore	560050	Karnataka	0

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6. Exercise on altering the table structure

6.A. Add a column called 'Telephone' of data type integer to the Client\_Master table.

6.A.(solution)  
ALTER TABLE CLIENT\_MASTER  
ADD Telephone integer;

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```
1 ALTER TABLE CLIENT_MASTER
2 ADD Telephone integer;
3 SELECT * FROM CLIENT_MASTER;
```

Table altered.

CLIENTNO	NAME	ADDRESS_1	ADDRESS_2	CITY	PINCODE	STATE	BALDUE	TELEPHONE
C00001	Ivan Bayross	-	-	Mumbai	400054	Maharashtra	1000	-
C00003	Chhaya Bankar	-	-	Mumbai	400057	Maharashtra	5000	-
C00004	Ashwini Joshi	-	-	Bangalore	560001	Karnataka	0	-
C00005	Hansel Colaco	-	-	Bangalore	400060	Maharashtra	2000	-
C00006	Deepak Sharma	-	-	Mangalore	560050	Karnataka	0	-

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6.B. Change the size off SellPrice column in Product\_Master to 10, 2.

6.B.(solution)

```
ALTER TABLE PRODUCT_MASTER
MODIFY SELLPRICE decimal(10, 2);
```

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1 ALTER TABLE PRODUCT\_MASTER

2 MODIFY SELLPRICE decimal(10, 2);

3 SELECT \* FROM PRODUCT\_MASTER;

Table altered.

PRODUCTNO	DESCRIPTION	PROFITPERCENT	UNIT_MEASURE	QTYONHAND	RECORDER_LVL	SELLPRICE	COSTPRICE
P00001	T-Shirt	5	Piece	200	50	350	250
P0435	Shirts	6	Piece	150	50	500	350
P07868	Trousers	2	Piece	150	50	850	950
P07885	Pull Overs	2.5	Piece	80	30	700	450
P07975	Lycra tops	5	Piece	70	30	300	175
P08865	Skirts	5	Piece	75	30	450	300

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7. Exercise on deleting the table structure along with the data

7.A.Destroy the table Client\_Master along with its data.

7.A.(solution)

```
DROP TABLE CLIENT_MASTER;
```

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1 DROP TABLE CLIENT\_MASTER;

Table dropped.

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## 8. Exercise on renaming the table.

8.A. Change the name of the Salesman\_Master to sman\_mast.

8.A.(solution)

```
ALTER TABLE SALESMAN_MASTER  
RENAME TO SMAN_MAST;  
SELECT * FROM SMAN_MAST;
```

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1 ALTER TABLE SALESMAN\_MASTER

2 RENAME TO SMAN\_MAST;

3 SELECT \* FROM SMAN\_MAST;

Table altered.

SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	STATE	SALAMT	TGTTGET	YTDSALES	REMARKS
S00001	Aman	A/14	Worli	Pune	400002	Maharashtra	-	-	-	-
S00002	Omkar	65	Nariman	Pune	400001	Maharashtra	-	-	-	-
S00003	Raj	P-7	Bandra	Pune	400032	Maharashtra	-	-	-	-
S00004	Ashish	A/5	Juhu	Pune	400044	Maharashtra	-	-	-	-

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