

ADBMS Lab Experiment-1

Name- Suyash Murari

Sap Id- 500093994

1. Create the tables described below:

Table name: CLIENT_MASTER

Description: used to store client information.

CLIENT_MASTER					+ v	
Table	Data	Indexes	Model	Constraints	Grants	Statistics
					UI Defaults	Triggers
					Dependencies	SQL
					REST	Sample Queries
<div> Add Column Modify Column Rename Column Drop Column Rename Copy Drop Truncate Create Lookup Table Create App </div>						
Column Name	Data Type		Nullable	Default	Primary Key	
CLIENT_NO	VARCHAR2(6)		Yes	-	-	
CLIENT_NAME	VARCHAR2(20)		Yes	-	-	
ADDRESS1	VARCHAR2(30)		Yes	-	-	
ADDRESS2	VARCHAR2(30)		Yes	-	-	
CITY	VARCHAR2(15)		Yes	-	-	
PINCODE	VARCHAR2(6)		Yes	-	-	
CLIENT_STATE	VARCHAR2(15)		Yes	-	-	
BALDUE	NUMBER(10,0)		Yes	-	-	

Table Name: PRODUCT_MASTER

Description: used to store product information

PRODUCT_MASTER

+ v

Table

Data

Indexes

Model

Constraints

Grants

Statistics

UI Defaults

Triggers

Dependencies

SQL

REST

Sample Queries

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
PRODUCT_NO	VARCHAR(6)	Yes	-	-
DESCRIPTION_DETAILS	VARCHAR(15)	Yes	-	-
PROFITPERCENT	NUMBER(4,0)	Yes	-	-
UNIT_MEASURE	VARCHAR(10)	Yes	-	-
QTYOHAND	NUMBER(50,0)	Yes	-	-
REORDER_VL	NUMBER(50,0)	Yes	-	-
SELLPRICE	NUMBER(8,0)	Yes	-	-
COSTPRICE	NUMBER(8,0)	Yes	-	-

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Table Name: SALESMAN_MASTER

Description: Used to store salesman information working for the company

SALESMAN_MASTER

+ v

TableDataIndexesModelConstraintsGrantsStatisticsUI DefaultsTriggersDependenciesSQLRESTSample Queries

Add Column

Modify Column

Rename Column

Drop Column

Rename

Copy

Drop

Truncate

Create Lookup Table

Create App

Column Name	Data Type	Nullable	Default	Primary Key
SALESMANNO	VARCHAR2(6)	Yes	-	-
SALESMANNAME	VARCHAR2(20)	Yes	-	-
ADDRESS1	VARCHAR2(30)	Yes	-	-
ADDRESS2	VARCHAR2(30)	Yes	-	-
CITY	VARCHAR2(20)	Yes	-	-
PINCODE	NUMBER	Yes	-	-
SALEMAN_STATE	VARCHAR2(20)	Yes	-	-
SALAMT	NUMBER(20,0)	Yes	-	-
TGTTOGET	NUMBER(38,0)	Yes	-	-
YTDsales	NUMBER(6,0)	Yes	-	-
REMARKS	VARCHAR2(60)	Yes	-	-

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2. Insert the following data into their respective tables:

a) Data for CLIENT_MASTER table:

CLIENT_MASTER									
Table	Data	Indexes	Model	Constraints	Grants	Statistics	UI Defaults	Triggers	Dependencies
SQL REST Sample Queries									
Query	Count Rows	Insert Row	Load Data						
Edit	Client_No	Client_Name	Address1	Address2	City	PINCODE	Client_State	BALDUE	
	C00005	Hansel Colaco	-	-	Mumbai	400060	Maharashtra	2000	
	C00006	Deepak Sharma	-	-	Mangalore	560050	Karnataka	0	
	C00004	Ashwini Joshi	-	-	Bangalore	560001	Karnataka	0	
	C00001	Ivan Bayross	-	-	Mumbai	400054	Maharashtra	15000	
	C00002	Mamta Muzumdar	-	-	Madras	780001	Tamil Nadu	0	
	C00003	Chhaya Bankar	-	-	Mumbai	400057	Maharashtra	5000	

b) Data for PRODUCT_MASTER table:

[illegible]

c) Data for SALESMAN_MASTER table:

SALESMAN_MASTER											
Table	Data	Indexes	Model	Constraints	Grants	Statistics	UI Defaults	Triggers	Dependencies	SQL	REST
Query	Count Rows	Insert Row	Load Data								
EDIT	SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	SALEMAN_STATE	SALAMT	TGTTGET	YTDsales	REMARKS
	S00003	RAJ	P-7	BANDRA	MUMBAI	400032	MAHARASHTRA	3000	200	100	GOOD
	S00001	AMAN	A/14	WORLI	MUMBAI	400002	MAHARASHTRA	3000	100	50	GOOD
	S00002	OMKAR	65	NARIMAN	MUMBAI	400001	MAHARASHTRA	3000	200	100	GOOD
	S00004	ASHISH	A/5	JUHU	MUMBAI	400044	MAHARASHTRA	3500	200	150	GOOD
	S00005	RAJ	P-7	BANDRA	MUMBAI	400032	MAHARASHTRA	3000	200	100	GOOD

3. Exercise on retrieving records from a table:

- Find out the names of all the clients.

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'Suyash Murari' are on the right. The 'SQL Commands' panel is active, showing a query: `1 select client_name from client_master;`. The 'Results' tab is selected, displaying a table with the column 'CLIENT_NAME' and six rows of client names: Hansel Colaco, Deepak Sharma, Ashwini Joshi, Ivan Bayross, Mamta Muzumdar, and Chhaya Bankar. A status bar at the bottom indicates '6 rows returned in 0.30 seconds' with a 'Download' link.

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

- Retrieve the entire contents of the Client_Master table.

The screenshot shows the APEX SQL Workshop interface with the same top navigation bar. The 'SQL Commands' panel shows a query: `1 select * from client_master;`. The 'Results' tab displays a table with eight columns: CLIENT_NO, CLIENT_NAME, ADDRESS1, ADDRESS2, CITY, PINCODE, CLIENT_STATE, and BALDUE. It contains six rows of data. A status bar at the bottom indicates '6 rows returned in 0.01 seconds' with a 'Download' link.

CLIENT_NO	CLIENT_NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	CLIENT_STATE	BALDUE
C00005	Hansel Colaco	-	-	Mumbai	400060	Maharashtra	2000
C00006	Deepak Sharma	-	-	Mangalore	560050	Karnataka	0
C00004	Ashwini Joshi	-	-	Bangalore	560001	Karnataka	0
C00001	Ivan Bayross	-	-	Mumbai	400054	Maharashtra	15000
C00002	Mamta Muzumdar	-	-	Madras	780001	Tamil Nadu	0
C00003	Chhaya Bankar	-	-	Mumbai	400057	Maharashtra	5000

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

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'Suyash Murari' are on the right. The 'SQL Commands' tab is active, showing a query: `select client_name, city, client_state from client_master;`. The 'Results' tab displays a table with 6 rows. The table has columns: CLIENT_NAME, CITY, and CLIENT_STATE. The data rows are: Hansel Colaco (Mumbai, Maharashtra), Deepak Sharma (Mangalore, Karnataka), Ashwini Joshi (Bangalore, Karnataka), Ivan Bayross (Mumbai, Maharashtra), Mamta Muzumdar (Madras, Tamil Nadu), and Chhaya Bankar (Mumbai, Maharashtra). The status bar indicates '6 rows returned in 0.01 seconds'.

CLIENT_NAME	CITY	CLIENT_STATE
Hansel Colaco	Mumbai	Maharashtra
Deepak Sharma	Mangalore	Karnataka
Ashwini Joshi	Bangalore	Karnataka
Ivan Bayross	Mumbai	Maharashtra
Mamta Muzumdar	Madras	Tamil Nadu
Chhaya Bankar	Mumbai	Maharashtra

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

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'Suyash Murari' are on the right. The 'SQL Commands' tab is active, showing a query: `select DESCRIPTION_DETAILS from PRODUCT_MASTER;`. The 'Results' tab displays a table with 9 rows. The table has a single column: DESCRIPTION_DETAILS. The data rows are: T-Shirt, Shirts, Cotton Jeans, Jeans, Trousers, Lycra Tops, Pull Overs, Denim Jeans, and Skirts. The status bar indicates '9 rows returned in 0.15 seconds'.

DESCRIPTION_DETAILS
T-Shirt
Shirts
Cotton Jeans
Jeans
Trousers
Lycra Tops
Pull Overs
Denim Jeans
Skirts

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

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'Suyash Murari' are on the right. The 'SQL Commands' tab is active, showing a query: `SELECT client_name FROM CLIENT_MASTER WHERE CITY = 'Mumbai';`. The 'Results' tab is selected, displaying a table with the column 'CLIENT_NAME' and three rows: 'Hansel Colaco', 'Ivan Bayross', and 'Chhaya Bankar'. The status bar indicates '3 rows returned in 0.01 seconds'.

CLIENT_NAME
Hansel Colaco
Ivan Bayross
Chhaya Bankar

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

The screenshot shows the APEX SQL Workshop interface. The top navigation bar includes 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'Gallery'. A search bar and user profile 'Suyash Murari' are on the right. The 'SQL Commands' tab is active, showing a query: `SELECT SALESMANNAME FROM salesman_master WHERE SALAMT = 3000;`. The 'Results' tab is selected, displaying a table with the column 'SALESMANNAME' and four rows: 'RAJ', 'AMAN', 'OMKAR', and 'RAJ'. The status bar indicates '4 rows returned in 0.01 seconds'.

SALESMANNAME
RAJ
AMAN
OMKAR
RAJ

4. Exercise on updating records in a table:

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

The screenshot shows the SQL Developer interface. On the left, the 'Object Browser' pane displays the 'CLIENT_MASTER' table under the 'WKSP_SUYASH77' schema. The 'Data' tab is selected, showing a table with 8 columns: CLIENT_NO, CLIENT_NAME, ADDRESS1, ADDRESS2, CITY, PINCODE, CLIENT_STATE, and BALDUE. The row for ClientNo 'C00005' has the city 'Bangalore' highlighted. On the right, the 'SQL Commands' pane shows an SQL update statement:

```
1 update CLIENT_MASTER
2 SET CITY= 'Bangalore'
3 WHERE CLIENT_NO ='C00005'
```

The 'Run' button is visible, indicating the command is ready to be executed.

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

The screenshot shows the SQL Developer interface after the second update. On the left, the 'Object Browser' pane displays the 'CLIENT_MASTER' table. The 'Data' tab is selected, showing the same table structure. The row for ClientNo 'C00001' now has a 'BALDUE' value of '1000'. On the right, the 'SQL Commands' pane shows the SQL update statement:

```
1 update CLIENT_MASTER
2 SET BALDUE = 1000
3 WHERE CLIENT_NO ='C00001'
```

Below the SQL Commands pane, the 'Results' tab is selected, showing the execution results:

```
1 row(s) updated.
0.01 seconds
```

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

The screenshot shows a database management interface with two main panels. The left panel displays the 'PRODUCT_MASTER' table with columns: DESCRIPTION_DETAILS, PROFITPERCENT, UNIT_MEASURE, QTYOHAND, REORDERL_VL, SELLPRICE, and COSTPRICE. The 'Trousers' row is highlighted, showing a cost price of 850. The right panel shows the 'SQL Commands' window with the following SQL query:

```
1 update PRODUCT_MASTER
2 SET COSTPRICE = 950
3 WHERE DESCRIPTION_DETAILS = 'Trousers'
```

The 'Results' tab shows '1 row(s) updated.' and '0.01 seconds'.

DESCRIPTION_DETAILS	PROFITPERCENT	UNIT_MEASURE	QTYOHAND	REORDERL_VL	SELLPRICE	COSTPRICE
T-Shirt	5	Piece	200	50	350	250
Shirts	6	Piece	150	50	500	350
Cotton Jeans	5	Piece	100	20	600	450
Jeans	5	Piece	100	20	750	500
Trousers	5	Piece	150	50	850	950
Lycra Tops	5	Piece	70	30	300	175
Pull Overs	3	Piece	80	30	700	450
Denim Jeans	4	Piece	100	40	350	250
Skirts	5	Piece	75	30	450	300

d. Change the city of the salesman to Pune.

The screenshot shows a database management interface with two main panels. The left panel displays the 'SALESMAN_MASTER' table with columns: EDIT, SALESMANNO, SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, SALEMAN_STATE, and SALEMAN_PHONE. The 'CITY' column is highlighted. The right panel shows the 'SQL Commands' window with the following SQL query:

```
1 update SALESMAN_MASTER
2 SET CITY = 'PUNE'
3
```

The 'Results' tab shows '5 row(s) updated.' and '0.04 seconds'.

EDIT	SALESMANNO	SALESMANNAME	ADDRESS1	ADDRESS2	CITY	PINCODE	SALEMAN_STATE	SALEMAN_PHONE
	S00003	RAJ	P-7	BANDRA	PUNE	400032	MAHARASHTRA	3000000000
	S00001	AMAN	A/14	WORLI	PUNE	400002	MAHARASHTRA	3000000000
	S00002	OMKAR	65	NARIMAN	PUNE	400001	MAHARASHTRA	3000000000
	S00004	ASHISH	A/5	JUHU	PUNE	400044	MAHARASHTRA	3500000000
	S00003	RAJ	P-7	BANDRA	PUNE	400032	MAHARASHTRA	3000000000

5. Exercise on deleting records in a table:

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

The screenshot shows the SQL Studio interface. On the left, the 'Object Browser' displays the 'SALESMAN_MASTER' table with columns: SALESMANNAME, ADDRESS1, ADDRESS2, CITY, PINCODE, SALEMAN_STATE, SALAMT, TGTTOGET, and YTDSALES. The table contains 4 rows. On the right, the 'SQL Commands' pane shows the following SQL query:

```
1 DELETE FROM SALESMAN_MASTER
2 WHERE SALAMT = 3500;
3
4
```

The 'Results' pane at the bottom right shows '1 row(s) deleted.'.

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

The screenshot shows the SQL Studio interface. On the left, the 'Object Browser' displays the 'PRODUCT_MASTER' table with columns: EDIT, PRODUCT_NO, DESCRIPTION_DETAILS, PROFITPERCENT, UNIT_MEASURE, QTYOHAND, REORDERL_VL, and SELLPRICE. The table contains 6 rows. On the right, the 'SQL Commands' pane shows the following SQL query:

```
1 DELETE FROM PRODUCT_MASTER
2 WHERE QTYOHAND = 100;
3
4
```

The 'Results' pane at the bottom right shows '3 row(s) deleted.' and '0.17 seconds'.

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

The screenshot displays a database management interface with two main panels. The left panel, titled 'Object Browser', shows the 'CLIENT_MASTER' table under the 'WKSP_SUYASH77' schema. The 'Data' tab is active, showing a table with 8 columns: CLIENT_NO, CLIENT_NAME, ADDRESS1, ADDRESS2, CITY, PINCODE, CLIENT_STATE, and BALDUE. The table contains 5 rows of data. The right panel, titled 'SQL Commands', shows a SQL query being executed: `DELETE FROM CLIENT_MASTER WHERE CLIENT_STATE = 'Tamil Nadu';`. The 'Results' tab at the bottom of the right panel shows the outcome: '1 row(s) deleted.' and '0.01 seconds'.

EDIT	CLIENT_NO	CLIENT_NAME	ADDRESS1	ADDRESS2	CITY	PINCODE	CLIENT_STATE	BALDUE
	C00005	Hansel Colaco	-	-	Bangalore	400060	Maharashtra	2000
	C00006	Deepak Sharma	-	-	Mangalore	560050	Karnataka	0
	C00004	Ashwini Joshi	-	-	Bangalore	560001	Karnataka	0
	C00001	Ivan Bayross	-	-	Mumbai	400054	Maharashtra	1000
	C00003	Chhaya Bankar	-	-	Mumbai	400057	Maharashtra	5000

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row(s) 1 - 5 of 5

SQL Commands

Language: SQL Rows: 10

Clear Command Find Tables

```
1 DELETE FROM CLIENT_MASTER
2 WHERE CLIENT_STATE = 'Tamil Nadu';
3
4
```

Results Explain Describe Saved SQL History

1 row(s) deleted.

0.01 seconds

6. Exercise on altering the table structure

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

The screenshot shows the SQL Developer interface. On the left, the 'Object Browser' displays the 'CLIENT_MASTER' table structure. The table has columns: CLIENT_NO (VARCHAR2(6)), CLIENT_NAME (VARCHAR2(20)), ADDRESS1 (VARCHAR2(30)), ADDRESS2 (VARCHAR2(30)), CITY (VARCHAR2(15)), PINCODE (VARCHAR2(6)), CLIENT_STATE (VARCHAR2(15)), BALDUE (NUMBER(10,0)), and TELEPHONE (NUMBER(37,0)). The 'TELEPHONE' column is highlighted. On the right, the 'SQL Commands' window shows the SQL command: `ALTER TABLE CLIENT_MASTER ADD Telephone NUMBER(37);`. The 'Results' window shows the message 'Table altered.' and the execution time '0.32 seconds'.

Column Name	Data Type	Nullable	Default	Primary Key
CLIENT_NO	VARCHAR2(6)	Yes	-	-
CLIENT_NAME	VARCHAR2(20)	Yes	-	-
ADDRESS1	VARCHAR2(30)	Yes	-	-
ADDRESS2	VARCHAR2(30)	Yes	-	-
CITY	VARCHAR2(15)	Yes	-	-
PINCODE	VARCHAR2(6)	Yes	-	-
CLIENT_STATE	VARCHAR2(15)	Yes	-	-
BALDUE	NUMBER(10,0)	Yes	-	-
TELEPHONE	NUMBER(37,0)	Yes	-	-

- b. Change the size off SellPrice column in Product_Master to 11.

The screenshot shows the SQL Developer interface. On the left, the 'Object Browser' displays the 'PRODUCT_MASTER' table structure. The table has columns: PRODUCT_NO (VARCHAR2(6)), DESCRIPTION_DETAILS (VARCHAR2(15)), PROFITPERCENT (NUMBER(4,0)), UNIT_MEASURE (VARCHAR2(10)), QTYOHAND (NUMBER(30,0)), REORDERL_VL (NUMBER(30,0)), SELLPRICE (NUMBER(11,0)), and COSTPRICE (NUMBER(8,0)). The 'SELLPRICE' column is highlighted. On the right, the 'SQL Commands' window shows the SQL command: `ALTER TABLE PRODUCT_MASTER MODIFY SELLPRICE NUMBER(11);`. The 'Results' window shows the message 'Table altered.' and the execution time '0.07 seconds'.

Column Name	Data Type	Nullable	Default	Primary Key
PRODUCT_NO	VARCHAR2(6)	Yes	-	-
DESCRIPTION_DETAILS	VARCHAR2(15)	Yes	-	-
PROFITPERCENT	NUMBER(4,0)	Yes	-	-
UNIT_MEASURE	VARCHAR2(10)	Yes	-	-
QTYOHAND	NUMBER(30,0)	Yes	-	-
REORDERL_VL	NUMBER(30,0)	Yes	-	-
SELLPRICE	NUMBER(11,0)	Yes	-	-
COSTPRICE	NUMBER(8,0)	Yes	-	-

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

- a. Destroy the table Client_Master along with its data.

The screenshot shows a database management interface with a 'Tables' panel on the left and an 'SQL Commands' panel on the right. The 'Tables' panel lists three tables: HTMLDB_PLAN_TABLE, PRODUCT_MASTER, and SALESMAN_MASTER. The 'SQL Commands' panel shows the command `DROP TABLE CLIENT_MASTER ;` entered. Below the command, the 'Results' tab is active, displaying the message 'Table dropped.' and the execution time '0.30 seconds'.

Table Name	Rows	Last Analyzed	Type
HTMLDB_PLAN_TABLE	-	-	TABLE
PRODUCT_MASTER	-	-	TABLE
SALESMAN_MASTER	-	-	TABLE

1 - 3

SQL Commands

Language: SQL Rows: 10 Clear Command

Find Tables

```
1 DROP TABLE CLIENT_MASTER ;
2
3
```

Results Explain Describe Saved SQL History

Table dropped.

0.30 seconds

8. Exercise on renaming the table

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

The screenshot shows the same database management interface. The 'Tables' panel now includes a fourth table, SMAN_MAST, which is highlighted in blue. The 'SQL Commands' panel shows the command `RENAME SALESMAN_MASTER TO sman_mast;` entered. Below the command, the 'Results' tab is active, displaying the message 'Statement processed.' and the execution time '0.17 seconds'.

Table Name	Rows	Last Analyzed	Type
HTMLDB_PLAN_TABLE	-	-	TABLE
PRODUCT_MASTER	-	-	TABLE
SMAN_MAST	-	-	TABLE

1 - 3

SQL Commands

Language: SQL Rows: 10 Clear Command

Find Tables

```
1 RENAME SALESMAN_MASTER TO sman_mast;
2
3
```

Results Explain Describe Saved SQL History

Statement processed.

0.17 seconds