

# **ADBMS Lab**

**Submitted by: Submitted to:**

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**BATCH : 1 DevOps**

**LAB 1**

**EXPERIMENT-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:**

**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 |

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**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 |

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**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 |

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1. **Insert the following data into their respective tables:**
2. 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 |

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1. 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 |

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1. 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 | Maharashtra |

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1. **Exercise on retrieving records from a table.**  
   a. Find out the names of all the clients.

**select name from CLIENT\_MASTER;**

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b. Retrieve the entire contents of the Client\_Master table.

**select \* from CLIENT\_MASTER;**

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

**select NAME, CITY, STATE from CLIENT\_MASTER;**

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d. List the various products available from the Product\_Master table.

**select DESCRIPTION from PRODUCT\_MASTER;**

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

**select NAME from CLIENT\_MASTER where CITY='MUMBAI';**

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f. Find the list of Product where QTYONHAND=100.

**select DESCRIPTION from PRODUCT\_MASTER where QTYONHAND=100;**

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1. **Exercise on updating records in a table**  
   a. Change the city of ClientNo ‘C00005’ to ‘Bangalore’.  
   **update CLIENT\_MASTER set CITY='BANGALORE' where CLIENTNO='C00005';**

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b. Change the BalDue of ClientNo ‘C00001’ to Rs.1000.

**update CLIENT\_MASTER set BALDUE=1000 where CLIENTNO='C00001';**

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c. Change the cost price of ‘Trousers’ to rs.950.00.

**update PRODUCT\_MASTER set COSTPRICE=950 where DESCRIPTION='Trousers';**

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d. Change the city of the salesman to Pune.

**update SALESMAN\_MASTER set CITY='PUNE';**

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1. **Exercise on deleting records in a table**  
   a. Delete all salesman from the Salesman\_Master whose salaries are equal to Rs.3500.

**delete from SALESMAN\_MASTER where SALAMT=3500;**

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

**delete from PRODUCT\_MASTER where QTYONHAND=100;**

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c. Delete from Client\_Master where the column state holds the value ‘Tamil Nadu’.

**delete from CLIENT\_MASTER where STATE='Tamil Nadu';**

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1. **Exercise on altering the table structure**  
   a. Add a column called ‘Telephone’ of data type integer to the Client\_Master table.

**alter table CLIENT\_MASTER add column TELEPHONE int;**

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

**alter table PRODUCT\_MASTER modify SELLPRICE decimal(10,2);**

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1. **Exercise on deleting the table structure along with the data**  
   a. Destroy the table Client\_Master along with its data.

**drop table CLIENT\_MASTER;**

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1. **Exercise on renaming the table**  
   a. Change the name of the Salesman\_Master to sman\_mast.

**alter table SALESMAN\_MASTER rename to SMAN\_MAST;**

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