**ASSIGNMENT NO 1 – 4**

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**PROBLEM STATEMENT: Study of source relational database :mysql**

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mysql> create database ENGG;

Query OK, 1 row affected (0.00 sec)

mysql> use ENGG;

Database changed

CREATE TABLE CLIENT\_MASTER(CLIENT\_NO VARCHAR (6), NAME VARCHAR (20), ADDRESS1 VARCHAR (30), ADDRESS2 VARCHAR (30), CITY VARCHAR (15), PINCODE INTEGER (8), STATE VARCHAR (15), BAL\_DUE FLOAT (10,2), PRIMARY KEY (CLIENT\_NO));

Query OK, 0 rows affected (0.08 sec)

mysql> DESC CLIENT\_MASTER;

+-----------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------+-------------+------+-----+---------+-------+

| CLIENT\_NO | varchar(6) | NO | PRI | | |

| NAME | varchar(20) | NO | | NULL | |

| ADDRESS1 | varchar(30) | NO | | NULL | |

| ADDRESS2 | varchar(30) | NO | | NULL | |

| CITY | varchar(15) | NO | | NULL | |

| PINCODE | int(8) | NO | | NULL | |

| STATE | varchar(15) | NO | | NULL | |

| BAL\_DUE | float(10,2) | NO | | NULL | |

+-----------+-------------+------+-----+---------+-------+

8 rows in set (0.00 sec)

mysql>

INSERT INTO CLIENT\_MASTER(CLIENT\_NO,NAME,ADDRESS1,ADDRESS2,CITY,PINCODE,STATE,BALDUE)

VALUES

('C00001','IVAN BAYROSS','NASHIK','YEOLA','MUMBAI','400054','MAHARASHTRA','15000'),

('C00002','MAMTA MUZUMDAR','NIMANI','CBS','MADRAS','780001','TAMIL NADU','0'),

('C00003','CHHAYA BANKER','DWARKA','ASHOKNAGAR','MUMBAI','400057','MAHARASHTRA','5000'),

('C00004','ASHWINI JOSHI','RK','SHALIMAR','BANGALORE','560001','KARNATAKA','0'),

('C00005','HANSEL COLACO','KOPARGAON','LASLGAON','MUMBAI','400060','MAHARASHTRA','2000'),

('C00006','DIPAK SHARMA','VAIJAPUR','VINCHUR','BANGALORE','560050','KARNATAKA','0');

Query OK, 6 rows affected (0.02 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> SELECT \*FROM CLIENT\_MASTER;

+-----------+----------------+-----------+------------+-----------+---------+-------------+----------+

| CLIENT\_NO | NAME | ADDRESS1 | ADDRESS2 | CITY | PINCODE | STATE | BALDUE |

+-----------+----------------+-----------+------------+-----------+---------+-------------+----------+

| C00001 | IVAN BAYROSS | NASHIK | YEOLA | MUMBAI | 400054 | MAHARASHTRA | 15000.00 |

| C00002 | MAMTA MUZUMDAR | NIMANI | CBS | MADRAS | 780001 | TAMIL NADU | 0.00 |

| C00003 | CHHAYA BANKER | DWARKA | ASHOKNAGAR | MUMBAI | 400057 | MAHARASHTRA | 5000.00 |

| C00004 | ASHWINI JOSHI | RK | SHALIMAR | BANGALORE | 560001 | KARNATAKA | 0.00 |

| C00005 | HANSEL COLACO | KOPARGAON | LASLGAON | MUMBAI | 400060 | MAHARASHTRA | 2000.00 |

| C00006 | DIPAK SHARMA | VAIJAPUR | VINCHUR | BANGALORE | 560050 | KARNATAKA | 0.00 |

+-----------+----------------+-----------+------------+-----------+---------+-------------+----------+

6 rows in set (0.00 sec)

mysql> CREATE TABLE PRODUCT\_MASTER (PRODUCT\_NO VARCHAR (6), DESCRIPTION VARCHAR (15) NOT NULL, PROFIT\_PERSCENT FLOAT (4,2) NOT NULL, UNIT\_MEASURE VARCHAR (10) NOT NULL, QTY\_ON\_HAND INTEGER (8) NOT NULL, REORDER\_LVL INTEGER (8) NOT NULL, SELL\_PRICE FLOAT (8,2) NOT NULL, COST\_PRICE FLOAT (8,2) NOT NULL, PRIMARY KEY (PRODUCT\_NO));

Query OK, 0 rows affected (0.08 sec)

mysql> DESC PRODUCT\_MASTER;+-----------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+-------------+------+-----+---------+-------+

| PRODUCT\_NO | varchar(6) | NO | PRI | | |

| DESCRIPTION | varchar(15) | NO | | NULL | |

| PROFIT\_PERSCENT | float(4,2) | NO | | NULL | |

| UNIT\_MEASURE | varchar(10) | NO | | NULL | |

| QTY\_ON\_HAND | int(8) | NO | | NULL | |

| REORDER\_LVL | int(8) | NO | | NULL | |

| SELL\_PRICE | float(8,2) | NO | | NULL | |

| COST\_PRICE | float(8,2) | NO | | NULL | |

+-----------------+-------------+------+-----+---------+-------+

8 rows in set (0.00 sec)

mysql> INSERT INTO PRODUCT\_MASTER(PRODUCT\_NO,DESCRIPTION,PROFIT\_PERSCENT,UNIT\_MEASURE,QTY\_ON\_HAND,REORDER\_LVL,SELL\_PRICE,COST\_PRICE) VALUES ('P0001','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'), ('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','DEIM SHIRTS','4','PIECE','100','40','350','250'), ('P07975','LYCRA TOPS','5','PIECE','70','30','300','175'), ('P08865','SKIRTS','5','PIECE','75','30','450','300');

Query OK, 9 rows affected (0.02 sec)

Records: 9 Duplicates: 0 Warnings: 0

mysql> SELECT \*FROM PRODUCT\_MASTER;

+------------+--------------+-----------------+--------------+-------------+-------------+------------+------------+

| PRODUCT\_NO | DESCRIPTION | PROFIT\_PERSCENT | UNIT\_MEASURE | QTY\_ON\_HAND | REORDER\_LVL | SELL\_PRICE | COST\_PRICE |

+------------+--------------+-----------------+--------------+-------------+-------------+------------+------------+

| P0001 | T-SHIRTS | 5.00 | PIECE | 200 | 50 | 350.00 | 250.00 |

| P0345 | SHIRTS | 6.00 | PIECE | 150 | 50 | 500.00 | 350.00 |

| P06734 | COTTON JEANS | 5.00 | PIECE | 100 | 20 | 600.00 | 450.00 |

| P07865 | JEANS | 5.00 | PIECE | 100 | 20 | 750.00 | 500.00 |

| P07868 | TROUSERS | 2.00 | PIECE | 150 | 50 | 850.00 | 550.00 |

| P07885 | PULL OVERS | 2.50 | PIECE | 80 | 30 | 700.00 | 450.00 |

| P07965 | DEIM SHIRTS | 4.00 | PIECE | 100 | 40 | 350.00 | 250.00 |

| P07975 | LYCRA TOPS | 5.00 | PIECE | 70 | 30 | 300.00 | 175.00 |

| P08865 | SKIRTS | 5.00 | PIECE | 75 | 30 | 450.00 | 300.00 |

+------------+--------------+-----------------+--------------+-------------+-------------+------------+------------+

9 rows in set (0.00 sec)

mysql> CREATE TABLE SALESMAN\_MASTER (SALESMAN\_NO VARCHAR (6) PRIMARY KEY, SALESMAN\_NAME VARCHAR (20) NOT NULL, ADDRESS1 VARCHAR (30) NOT NULL, ADDRESS2 VARCHAR (30), CITY VARCHAR (20), PINCODE FLOAT (8,2), STATE VARCHAR (20), SAL\_AMT FLOAT (8,2) NOT NULL, TGT\_TO\_GET FLOAT (6,2) NOT NULL, YTD\_SALES FLOAT (6,2) NOT NULL, REMARKS VARCHAR (60));

Query OK, 0 rows affected (0.06 sec)

mysql> DESC SALESMAN\_MASTER;

+---------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+---------------+-------------+------+-----+---------+-------+

| SALESMAN\_NO | varchar(6) | NO | PRI | NULL | |

| SALESMAN\_NAME | varchar(20) | NO | | NULL | |

| ADDRESS1 | varchar(30) | NO | | NULL | |

| ADDRESS2 | varchar(30) | YES | | NULL | |

| CITY | varchar(20) | YES | | NULL | |

| PINCODE | float(8,2) | YES | | NULL | |

| STATE | varchar(20) | YES | | NULL | |

| SAL\_AMT | float(8,2) | NO | | NULL | |

| TGT\_TO\_GET | float(6,2) | NO | | NULL | |

| YTD\_SALES | float(6,2) | NO | | NULL | |

| REMARKS | varchar(60) | YES | | NULL | |

+---------------+-------------+------+-----+---------+-------+

11 rows in set (0.00 sec)

mysql> INSERT INTO SALESMAN\_MASTER(SALESMAN\_NO,SALESMAN\_NAME,ADDRESS1,ADDRESS2,CITY,PINCODE,STATE,SAL\_AMT,TGT\_TO\_GET,YTD\_SALES,REMARKS) VALUES ('S00001','AMAN','A/14','WORLI','MUMBAI','400002','MAHARSHTRA','3000','100','50','GOOD'), ('S00002','OMKAR','65','NARIMAN','MUMBAI','400001','MAHARSHTRA','3000','200','100','GOOD'), ('S00003','RAJ','P-7','BANDRA','MUMBAI','400032','MAHARSHTRA','3000','200','100','GOOD'), ('S00004','ASHISH','A/5','JUHU','MUMBAI','400044','MAHARSHTRA','3000','200','150','GOOD');

Query OK, 4 rows affected (0.02 sec)

Records: 4 Duplicates: 0 Warnings: 0

mysql> SELECT \*FROM SALESMAN\_MASTER;

+-------------+---------------+----------+----------+--------+-----------+------------+---------+------------+-----------+---------+

| SALESMAN\_NO | SALESMAN\_NAME | ADDRESS1 | ADDRESS2 | CITY | PINCODE | STATE | SAL\_AMT | TGT\_TO\_GET | YTD\_SALES | REMARKS |

+-------------+---------------+----------+----------+--------+-----------+------------+---------+------------+-----------+---------+

| S00001 | AMAN | A/14 | WORLI | MUMBAI | 400002.00 | MAHARSHTRA | 3000.00 | 100.00 | 50.00 | GOOD |

| S00002 | OMKAR | 65 | NARIMAN | MUMBAI | 400001.00 | MAHARSHTRA | 3000.00 | 200.00 | 100.00 | GOOD |

| S00003 | RAJ | P-7 | BANDRA | MUMBAI | 400032.00 | MAHARSHTRA | 3000.00 | 200.00 | 100.00 | GOOD |

| S00004 | ASHISH | A/5 | JUHU | MUMBAI | 400044.00 | MAHARSHTRA | 3000.00 | 200.00 | 150.00 | GOOD |

+-------------+---------------+----------+----------+--------+-----------+------------+---------+------------+-----------+---------+

4 rows in set (0.00 sec)

mysql> CREATE TABLE SALES\_ORDER (ORDER\_NO VARCHAR (6) PRIMARY KEY,CLIENT\_NO VARCHAR (6), ORDER\_DATE DATE NOT NULL, DELY\_ADDR VARCHAR (25), SALESMAN\_NO VARCHAR (6), DELY\_TYPE CHAR (1), BILLYN CHAR (1), DELY\_DATE DATE, ORDER\_STATUS VARCHAR (10), FOREIGN KEY (CLIENT\_NO) REFERENCES CLIENT\_MASTER (CLIENT\_NO), FOREIGN KEY (SALESMAN\_NO) REFERENCES SALESMAN\_MASTER (SALESMAN\_NO));

Query OK, 0 rows affected (0.14 sec)

mysql> DESC SALES\_ORDER;

+--------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+-------------+------+-----+---------+-------+

| ORDER\_NO | varchar(6) | NO | PRI | NULL | |

| CLIENT\_NO | varchar(6) | YES | MUL | NULL | |

| ORDER\_DATE | date | NO | | NULL | |

| DELY\_ADDR | varchar(25) | YES | | NULL | |

| SALESMAN\_NO | varchar(6) | YES | MUL | NULL | |

| DELY\_TYPE | char(1) | YES | | NULL | |

| BILLYN | char(1) | YES | | NULL | |

| DELY\_DATE | date | YES | | NULL | |

| ORDER\_STATUS | varchar(10) | YES | | NULL | |

+--------------+-------------+------+-----+---------+-------+

9 rows in set (0.00 sec)

mysql> insert into SALES\_ORDER (ORDER\_NO,CLIENT\_NO,ORDER\_DATE,DELY\_ADDR,SALESMAN\_NO,DELY\_TYPE,BILLYN,DELY\_DATE,ORDER\_STATUS)

values

('O19001','C00001','04-06-12','NASHIK','S00001','F','N','02-07-20','In Process'),

('O19002','C00002','04-06-25','NASHIK','S00002','P','N','02-06-27','Cancelled'),

('O46865','C00003','04-02-18','NASHIK','S00003','F','Y','02-02-20','Fulfilled'),

('O19003','C00001','04-04-03','NASHIK','S00001','F','Y','02-04-07','Fulfilled'),

('O46866','C00004','04-05-20','NASHIK','S00002','P','N','02-05-22','Cancelled'),

('O19008','C00005','04-05-24','NASHIK','S00004','F','N','02-07-26','In Process');

mysql> select \* from SALES\_ORDER;

+---------+----------+------------+-----------+------------+----------+--------+------------+-------------+

| ORDERNO | CLIENTNO | ORDER\_DATE | DELY\_ADDR | SALESMANNO | DELYTYPE | BILLYN | DELYDATE | ORDERSTATUS |

+---------+----------+------------+-----------+------------+----------+--------+------------+-------------+

| O19001 | C00001 | 2004-06-12 | NASHIK | S00001 | F | N | 2002-07-20 | In Process |

| O19002 | C00002 | 2004-06-25 | NASHIK | S00002 | P | N | 2002-06-27 | Cancelled |

| O19003 | C00001 | 2004-04-03 | NASHIK | S00001 | F | Y | 2002-04-07 | Fulfilled |

| O19008 | C00005 | 2004-05-24 | NASHIK | S00004 | F | N | 2002-07-26 | In Process |

| O46865 | C00003 | 2004-02-18 | NASHIK | S00003 | F | Y | 2002-02-20 | Fulfilled |

| O46866 | C00004 | 2004-05-20 | NASHIK | S00002 | P | N | 2002-05-22 | Cancelled |

+---------+----------+------------+-----------+------------+----------+--------+------------+-------------+

6 rows in set (0.00 sec)

mysql> CREATE TABLE SALES\_ORDER\_DETAILS (ORDER\_NO VARCHAR (6), PRODUCT\_NO VARCHAR (6), QTY\_ORDERED INTEGER (8), QTY\_DISP INTEGER (8), PRODUCT\_RATE FLOAT (10,2), FOREIGN KEY (ORDER\_NO) REFERENCES SALES\_ORDER (ORDER\_NO), FOREIGN KEY (PRODUCT\_NO) REFERENCES PRODUCT\_MASTER (PRODUCT\_NO));

Query OK, 0 rows affected (0.12 sec)

mysql> DESC SALES\_ORDER\_DETAILS;

+--------------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+--------------+-------------+------+-----+---------+-------+

| ORDER\_NO | varchar(6) | YES | MUL | NULL | |

| PRODUCT\_NO | varchar(6) | YES | MUL | NULL | |

| QTY\_ORDERED | int(8) | YES | | NULL | |

| QTY\_DISP | int(8) | YES | | NULL | |

| PRODUCT\_RATE | float(10,2) | YES | | NULL | |

+--------------+-------------+------+-----+---------+-------+

5 rows in set (0.01 sec)

mysql> insert into SALES\_ORDER\_DETAILS (ORDER\_NO,PRODUCT\_NO,QTY\_ORDERED,QTY\_DISP,PRODUCT\_RATE)

values

('O19001','P0001','4','4','525'),

('O19001','P07965','2','1','8400'),

('O19001','P07885','2','1','5250'),

('O19002','P0001','10','0','525'),

('O46865','P07868','3','3','3150'),

('O46865','P07885','3','1','5250'),

('O46865','P0001','10','10','525'),

('O46865','P0345','4','4','1050'),

('O19003','P0345','2','2','1050'),

('O19003','P06734','1','1','12000'),

('O46866','P07965','1','0','8400'),

('O46866','P07975','1','0','1050'),

('O19008','P0001','10','5','525'),

('O19008','P07975','5','3','1050');

mysql> select \* from SALES\_ORDER\_DETAILS;

+---------+-----------+------------+---------+-------------+

| ORDERNO | PRODUCTNO | QTYORDERED | QTYDISP | PRODUCTRATE |

+---------+-----------+------------+---------+-------------+

| O19001 | P0001 | 4 | 4 | 525.00 |

| O19001 | P07965 | 2 | 1 | 8400.00 |

| O19001 | P07885 | 2 | 1 | 5250.00 |

| O19002 | P0001 | 10 | 0 | 525.00 |

| O46865 | P07868 | 3 | 3 | 3150.00 |

| O46865 | P07885 | 3 | 1 | 5250.00 |

| O46865 | P0001 | 10 | 10 | 525.00 |

| O46865 | P0345 | 4 | 4 | 1050.00 |

| O19003 | P0345 | 2 | 2 | 1050.00 |

| O19003 | P06734 | 1 | 1 | 12000.00 |

| O46866 | P07965 | 1 | 0 | 8400.00 |

| O46866 | P07975 | 1 | 0 | 1050.00 |

| O19008 | P0001 | 10 | 5 | 525.00 |

| O19008 | P07975 | 5 | 3 | 1050.00 |

+---------+-----------+------------+---------+-------------+

14 rows in set (0.00 sec)