DBMS LAB - 2

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Question 1. [5 marks]

Create the following table: Customer

columname datatype size
Cust_ID varchar2 5
name varchar2 30
city varchar2 15
state varchar2 15
pincode number 6
products varchar2 40
price number 10

Note: ID must be unique, names and products can be repeated.

1(a)- Insert the data into the table.

Cust_ID	name	city	state	pincode	products	price
C101	Alex William	Indore	Madhya pradesh	452013	chair	4000
C102	Alex William	Pune	Maharastra	652016	table	8000
C103	V.Iyer	Chennai	Tamil Nadu	752716	table	8001
C104	L.Laxmi	Chennai	Tamil Nadu	752717	doll	200
C105	Ravi Teja	Hyderabad	Telangana	252727	doll	250
C106	Raj Kumar	Delhi	Delhi	151127	cricket kit	5250
C107	Tuner Bond	Bhopal	Madhya Pradesh	451127	football kit	3250
C108	Nikhil Yadav	Chennai	Tamil Nadu	751127	football kit	6250
C109	John	Mumbai	Maharastra	651127	football kit	6255

1 (b) On the basis of above table answer the following Questionnaires:

1. Find out the names of all the customers (without duplicates).

2. Retrieve the list of names and cities of all the customers.

```
mysql> select name,city from Customer;
               city
 Alex William | Indore
 Alex William
                Pune
 V.Iyer
                Chennai
               | Chennai
| Hyderabad
 L.Laxmi
 Ravi Teja
                Delhi
  Raj Kumar
  Tuner Bond
                 Bhopal
 Nikhil Yadav
                 Chennai
  John
                Mumbai
 rows in set (0.00 sec)
```

3. List the available products whose name begins with 'D'.

4. List all the clients who are in Chennai.

5. Display the information for clients with ID C108 and C104 (Assume Ids are present in the table).

6. Find all the products whose sell price is greater than 5000.

```
nysql> SELECT * FROM Customer Where price > 5000;
 Cust_ID | name
                      city
                               state
                                           | pincode | products
                                                                  price
          Alex William | Pune
                                             652016
                                                                     8000
 C102
                                Maharastra
 C103
          V.Iyer
                      | Chennai | Tamil Nadu |
                                             752716
                                                                     8001
        Raj Kumar Delhi
                               Delhi
                                                      cricket kit
 C106
                                             151127
                                                                     5250
          Nikhil Yadav | Chennai | Tamil Nadu | 751127 | football kit
                                                                     6250
 C108
                      | Mumbai | Maharastra |
          John
                                                    | football kit
                                                                     6255
 C109
                                             651127
 rows in set (0.00 sec)
```

7. Find the list of all customer IDs who stay in city 'Hyderabad' or city 'pune' or 'Delhi'.

```
nysql> SELECT * FROM Customer Where city = 'Hyderabad' or city =
 Cust ID | name
                                           | pincode | products
                     city
                                state
                                                                 price
                                | Maharastra | 652016 | table
        | Alex William | Pune
 C102
                                                                 8000
                     | Hyderabad | Telangana |
 C105
        Ravi Teja
                                             252727 | doll
                                                                   250
        Raj Kumar
                     Delhi
                                Delhi
                                             151127 | cricket kit | 5250
 rows in set (0.00 sec)
mysql> _
```

8. Find the product whose selling price is greater than 2000 and less than or equal to 5000.

9. List the name, city and state of clients not in the state of 'Tamil Nadu'.

```
nysql> SELECT name,city,state FROM Customer Where not state = 'Tamil Nadu';
                city
                           state
 name
                             Madhya pradesh
  Alex William
                Indore
  Alex William
                Pune
                             Maharastra
  Ravi Teja
                Hyderabad
                             Telangana
  Raj Kumar
                Delhi
                            Delhi
  Tuner Bond
                Bhopal
                            Madhya Pradesh
  Johney
                Mumbai
                           Maharastra
 rows in set (0.00 sec)
mysql> .
```

10. Modify customer name "John" as "Johney".

```
mysql> update Customer
    -> set name = 'Johney'
    -> where Cust_ID='C109';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from Customer;
 Cust_ID | name
                                                     | pincode | products
           Alex William
 C101
                          Indore
                                      Madhya pradesh
                                                       452013 | chair
                                                                                4000
 C102
           Alex William
                          Pune
                                      Maharastra
                                                       652016 | table
                                                                                8000
                                      Tamil Nadu
 C103
          V.Iyer
                          Chennai
                                                        752716
                                                                table
                                                                                8001
 C104
           L.Laxmi
                          Chennai
                                      Tamil Nadu
                                                        752717
                                                                doll
                                                                                 200
 C105
           Ravi Teja
                          Hyderabad
                                      Telangana
                                                       252727
                                                                doll
                                                                                 250
 C106
           Raj Kumar
                          Delhi
                                      Delhi
                                                       151127
                                                                cricket kit
                                                                                5250
 C107
           Tuner Bond
                          Bhopal
                                      Madhya Pradesh
                                                       451127
                                                                football kit
                                                                                3250
 C108
           Nikhil Yadav
                          Chennai
                                      Tamil Nadu
                                                        751127
                                                                football kit
                                                                                6250
 C109
                          Mumbai
                                    Maharastra
                                                        651127 | football kit
                                                                                6255
          Johney
 rows in set (0.00 sec)
mysql>
```

Question 2: [5 Marks]

- 1. Create following table ino the database 'business'
 - 1. employee (emp_no,emp_name, doj, ph_no, dept_name, designation,salary)

```
mysql> create table employee(
    -> emp_no int,
    -> emp_name varchar(30),
    -> doj date,
    -> ph_no bigint,
    -> dept_name varchar(20),
    -> designation varchar(20),
    -> salary int);
Query OK, 0 rows affected (0.02 sec)
```

2. Load data from the text file or insert the data into table (ATTACHED SEPARATELY)

```
ysql> insert into employee
-> values(2399,'Govind','2019-03-1',8346123423,'Accounts','Typist',4500,'M');
Query OK, 1 row affected (0.01 sec)
mysql> insert into employee
-> values(4599,'Dhanad','2019-04-2',8456123423,'Accounts','Typist',4000,'M');
mysql> insert into employee
    -> values(2399, 'Khurana', '2019-03-1', 9448903423, 'Accounts', 'CA', 14500, 'M');
Query OK, 1 row affected (0.01 sec)
mysql> insert into employee
-> values(4599,'Suraj','2019-04-2',9426123423,'Accounts','CA',46000,'M');
Query OK, 1 row affected (0.01 sec)
 nysql> select * from employee;
                                                                                               | salary | gender
  emp_no | emp_name
                           doj
                                           ph_no
                                                                       designation
    1234
                             2020-01-02
                                          9444123456
           Sarala
                                                         Sales
                                                                       HR
                                                                                                  70000
                            2019-01-01
                                           9464123456
    3452
           Amogh
                                                         Sales
                                                                       Sales manager
                                                                                                  72000
            Qasim
                             2019-04-01
                                           9444123423
                                                         Sales
                                                                       Sales representative
                                                                                                   7000
    4112
            Swathi
                             2019-04-23
                                                 NULL
                                                         Sales
                                                                       Typist
                                                                                                   3300
                            2019-03-01
                                          9444125357
    6693
           Manoj
                                                                       Marketing
                                                                                                  17000
                                                         HR
    4345
            Devi kumar
                            2020-01-01
                                           9448563456
                                                         HR
                                                                       HR
                                                                                                  70000
    5744
            Hari dev
                             2019-03-01
                                           9464893456
                                                         Marketing
                                                                       Receptionist
                                                                                                   2000
           William Jane
                                                         Marketing
    7899
                            2019-04-12
                                                 NULL
                                                                       Typist
                                                                                                   4000
                                           8244125357
                                                         Marketing
                                                                       sales representative
    3451
           Dennis
                            2019-11-01
                                                                                                   7000
                                                                                                          М
    2399
            Govind
                             2019-03-01
                                           8346123423
                                                         Accounts
                                                                       Typist
                                                                                                   4500
    4599
                            2019-04-02
                                           8456123423
                                                                                                   4000
            Dhanad
                                                         Accounts
                                                                       Typist
    2399
                             2019-03-01
                                           9448903423
                                                                                                  14500
            Khurana
                                                         Accounts
                                                                       CA
                            2019-04-02
                                          9426123423
                                                                                                  46000
    4599
            Suraj
                                                         Accounts
                                                                       CA
 3 rows in set (0.00 sec)
```

- 3. Add 3 to 5 rows in the employee, following below conditions
 - a. Dept_names:'sales','HR','Marketing','Accounts'
 - b. Designation: 'Sales manager','HR',"sales representative', 'CA', 'Typist', 'Receptionist'

```
mysql> insert into employee
-> VALUES(1564,'Saroja','2020-01-22',9467123456,'Sales','HR',50000,'F'),(3452,'Rayudu','2019-01-21',9464127486,'Sale
s','Sales manager',78000,'M'),(4382,'Avinash','2019-09-01',9444125555,'Sales','Sales representative',17000,'M'),(4192,'S
wetha','2019-04-27',NULL,'Sales','Typist',5300,'F'),(6699,'Manobala','2019-03-07',9444125777,'HR','Marketing',18000,'F')
;
Query OK, 5 rows affected (0.01 sec)
Records: 5 Duplicates: 0 Warnings: 0
```

4. Display all the records from the above table

emp_no	emp_name	doj	ph_no	dept_name	designation	salary	gender
1234	Sarala	2020-01-02	9444123456	Sales	HR	70000	F
3452	Amogh	2019-01-01	9464123456	Sales	Sales manager	72000	М
4312	Qasim	2019-04-01	9444123423	Sales	Sales representative	7000	М
4112	Swathi	2019-04-23	NULL	Sales	Typist	3300	F
6693	Manoj	2019-03-01	9444125357	HR	Marketing	17000	М
4345	Devi kumar	2020-01-01	9448563456	HR	HR	70000	F
5744	Hari dev	2019-03-01	9464893456	Marketing	Receptionist	2000	М
7899	William Jane	2019-04-12	NULL	Marketing	Typist	4000	F
3451	Dennis	2019-11-01	8244125357	Marketing	sales representative	7000	М
2399	Govind	2019-03-01	8346123423	Accounts	Typist	4500	М
4599	Dhanad	2019-04-02	8456123423	Accounts	Typist	4000	М
2399	Khurana	2019-03-01	9448903423	Accounts	CA	14500	М
4599	Suraj	2019-04-02	9426123423	Accounts	CA	46000	М
1564	Saroja	2020-01-22	9467123456	Sales	HR	50000	F
3452	Rayudu	2019-01-21	9464127486	Sales	Sales manager	78000	М
4382	Avinash	2019-09-01	9444125555	Sales	Sales representative	17000	М
4192	Swetha	2019-04-27	NULL	Sales	Typist	5300	F
6699	Manobala	2019-03-07	9444125777	HR	Marketing	18000	F
rows in	set (0.00 sec)))	+	+	+	+	+

5. Display the empno and name of all the employees from department name ending with 's'

6. Display the empno and name of all employees whose salary is between 2000 and 5000

7. Display all designations starting with 'sales'

8. Change the salary of employees to 25000 whose designation is 'Typist'

```
mysql> update employee
    -> set salary = 25000
    -> where designation = 'Typist';
Query OK, 5 rows affected (0.01 sec)
Rows matched: 5 Changed: 5 Warnings: 0
mysql> select * from employee;
 emp_no | emp_name
                                     ph_no
                                                  dept_name designation
                                                                                      | salary | gender
                          2020-01-02
                                      9444123456
   1234
        Sarala
                                                    Sales
                                                                HR
                                                                                         70000
   3452
                          2019-01-01
                                       9464123456
                                                    Sales
                                                                Sales manager
                                                                                         72000
          Amogh
   4312
                          2019-04-01
                                       9444123423
                                                    Sales
                                                                Sales representative
                                                                                         7000
          Qasim
                          2019-04-23
   4112
          Swathi
                                            NULL
                                                    Sales
                                                                Typist
                                                                                         25000
   6693
          Manoj
                          2019-03-01
                                       9444125357
                                                    HR
                                                                Marketing
                                                                                         17000
                                                                                                Μ
          Devi kumar
   4345
                          2020-01-01
                                       9448563456
                                                    HR
                                                                HR
                                                                                         70000
   5744
          Hari dev
                          2019-03-01
                                       9464893456
                                                    Marketing
                                                                Receptionist
                                                                                          2000
                                                                                                Μ
                                                    Marketing
          William Jane
                          2019-04-12
   7899
                                            NULL
                                                                Typist
                                                                                         25000
   3451
          Dennis
                          2019-11-01
                                       8244125357
                                                    Marketing
                                                                sales representative
                                                                                         7000
   2399
          Govind
                          2019-03-01
                                       8346123423
                                                                Typist
                                                                                         25000
                                                                                                Μ
                                                    Accounts
   4599
                          2019-04-02
                                                                                                Μ
          Dhanad
                                       8456123423
                                                    Accounts
                                                                Typist
                                                                                         25000
                                                                                         14500
   2399
          Khurana
                          2019-03-01
                                       9448903423
                                                    Accounts
                                                                CA
                                                                                                Μ
   4599
                          2019-04-02
                                       9426123423
                                                    Accounts
                                                                                         46000
          Suraj
   1564
           Saroja
                          2020-01-22
                                       9467123456
                                                    Sales
                                                                HR
                                                                                         50000
   3452
                          2019-01-21
                                       9464127486
                                                                                         78000
          Ravudu
                                                    Sales
                                                                                                Μ
                                                                Sales manager
   4382
          Avinash
                          2019-09-01
                                       9444125555
                                                    Sales
                                                                Sales representative
                                                                                         17000
                                                                                                Μ
   4192
          Swetha
                          2019-04-27
                                            NULL
                                                    Sales
                                                                Typist
                                                                                         25000
                          2019-03-07
                                       9444125777
   6699
          Manobala
                                                    HR
                                                                Marketing
                                                                                         18000
18 rows in set (0.00 sec)
```

9. Change the mobile no of employee named 'john'

-> whe ery OK, ws match	ph_no = 798112 ere emp_name = ' 1 row affected ned: 1 Changed: lect * from emp]	'Qasim'; (0.01 sec) : 1 Warnings	: 0				
emp_no	emp_name	doj	+ ph_no	+ dept_name	+ designation	+ salary	gender
1234	Sarala	2020-01-02	9444123456	Sales	+	70000	F
3452	Amogh	2019-01-01	9464123456	Sales	Sales manager	72000	М
4312	Qasim	2019-04-01	7981123450	Sales	Sales representative	7000	М
4112	Swathi	2019-04-23	NULL	Sales	Typist	25000	F
6693	Manoj	2019-03-01	9444125357	HR	Marketing	17000	М
4345	Devi kumar	2020-01-01	9448563456	HR	HR	70000	F
5744	Hari dev	2019-03-01	9464893456	Marketing	Receptionist	2000	М
7899	William Jane	2019-04-12	NULL	Marketing	Typist	25000	F
3451	Dennis	2019-11-01	8244125357	Marketing	sales representative	7000	М
2399	Govind	2019-03-01	8346123423	Accounts	Typist	25000	M
4599	Dhanad	2019-04-02	8456123423	Accounts	Typist	25000	М
2399	Khurana	2019-03-01	9448903423	Accounts	CA	14500	М
4599	Suraj	2019-04-02	9426123423	Accounts	CA	46000	М
1564	Saroja	2020-01-22	9467123456	Sales	HR	50000	F
3452	Rayudu	2019-01-21	9464127486	Sales	Sales manager	78000	М
4382	Avinash	2019-09-01	9444125555	Sales	Sales representative	17000	М
4192	Swetha	2019-04-27	NULL	Sales	Typist	25000	F
6600	Manobala	2019-03-07	9444125777	HR	Marketing	18000	F

10. Give all the receptionists 10% hike

```
mysql> update employee
    -> set salary = salary + (salary/10)
    -> where designation = 'Receptionist';
Query OK, 1 row affected (0.01 sec)
Rows matched: 1 Changed: 1 Warnings: 0
mysql> select * from employee;
 emp_no | emp_name
                          doj
                                        ph_no
                                                    dept_name
                                                                  designation
                                                                                          salary
                                                                                                    gender
                                        9444123456
    1234
                           2020-01-02
                                                                                           70000
           Sarala
                                                      Sales
    3452
           Amogh
                           2019-01-01
                                        9464123456
                                                      Sales
                                                                  Sales manager
                                                                                           72000
                           2019-04-01
                                        7981123450
                                                                  Sales representative
                                                                                            7000
                                                                                                    Μ
           Qasim
                                                      Sales
                                                                  Typist
                           2019-04-23
                                                                                           25000
    4112
           Swathi
                                              NULL
                                                      Sales
    6693
           Manoj
                           2019-03-01
                                        9444125357
                                                                  Marketing
                                                                                           17000
    4345
                           2020-01-01
                                        9448563456
                                                                                           70000
           Devi kumar
                                                      HR
           Hari dev
                                        9464893456
                                                                  Receptionist
                           2019-03-01
                                                      Marketing
    5744
                                                                                            2200
    7899
           William Jane
                           2019-04-12
                                              NULL
                                                      Marketing
                                                                  Typist
                                                                                           25000
    3451
                           2019-11-01
                                        8244125357
           Dennis
                                                      Marketing
                                                                  sales representative
                                                                                            7000
                          2019-03-01
    2399
           Govind
                                        8346123423
                                                      Accounts
                                                                  Typist
                                                                                           25000
    4599
           Dhanad
                           2019-04-02
                                        8456123423
                                                      Accounts
                                                                   Typist
                                                                                           25000
    2399
           Khurana
                           2019-03-01
                                        9448903423
                                                      Accounts
                                                                                           14500
                           2019-04-02
                                                                                           46000
    4599
                                        9426123423
                                                                  CA
           Suraj
                                                      Accounts
    1564
           Saroja
                           2020-01-22
                                        9467123456
                                                      Sales
                                                                                           50000
    3452
                           2019-01-21
                                        9464127486
                                                                                           78000
                                                      Sales
                                                                  Sales manager
           Rayudu
    4382
                           2019-09-01
                                        9444125555
                                                                                           17000
           Avinash
                                                      Sales
                                                                  Sales representative
    4192
           Swetha
                           2019-04-27
                                              NULL
                                                      Sales
                                                                  Typist
                                                                                           25000
    6699
           Manobala .
                           2019-03-07
                                        9444125777
                                                      HR
                                                                  Marketing
                                                                                           18000
18 rows in set (0.00 sec)
```

11. Find the employees whose mobile number is not mentioned

```
mysql> select * from employee
   -> where ph_no is NULL;
                       doj
                                   | ph_no | dept_name | designation | salary | gender |
 emp_no | emp_name
   4112 | Swathi
                        2019-04-23
                                      NULL
                                             Sales
                                                         Typist
                                                                        25000
   7899
        | William Jane
                       2019-04-12
                                      NULL
                                             Marketing
                                                         Typist
                                                                        25000
   4192 | Swetha
                       2019-04-27
                                      NULL | Sales
                                                         Typist
                                                                        25000 | F
 rows in set (0.00 sec)
mysql>
```

12. Delete all employees whose salaries are greater than Rs.7000

```
ysql> select * from employee;
 emp_no | emp_name | doj
                                ph_no
                                             | dept_name | designation
                                                                               | salary | gender
                    2019-04-01
                                 7981123450 | Sales
         Qasim
                                                          Sales representative
                                                                                   7000
   5744
         Hari dev
                    2019-03-01
                                 9464893456
                                              Marketing
                                                                                   2200
                                                          Receptionist
                    2019-11-01
   3451
                                 8244125357 | Marketing
         Dennis
                                                          sales representative
                                                                                   7000
 rows in set (0.00 sec)
nysql> _
```

13. Truncate the table

```
mysql> truncate table employee;
Query OK, 0 rows affected (0.04 sec)
mysql> select * from employee;
Empty set (0.00 sec)
```

14. Display the table structure

mysql> describe employee;							
Field	Туре	Null	Key	Default	Extra		
emp_no	int	YES		NULL			
emp_name doi	varchar(30) date	YES YES		NULL NULL			
ph_no	bigint	YES		NULL			
dept_name designation	varchar(20) varchar(20)	YES YES		NULL NULL			
salary	int	YES		NULL			
gender							
8 rows in set (0.04 sec)							
mysql> _							

