1. **Name of the Student: -**   **Gaurav Khairnar**

2. **Title of the Project: -**   **FOOD FACTORY**

3. **Name of the Guide: -**   **PROF. PRACHITI MA'AM**
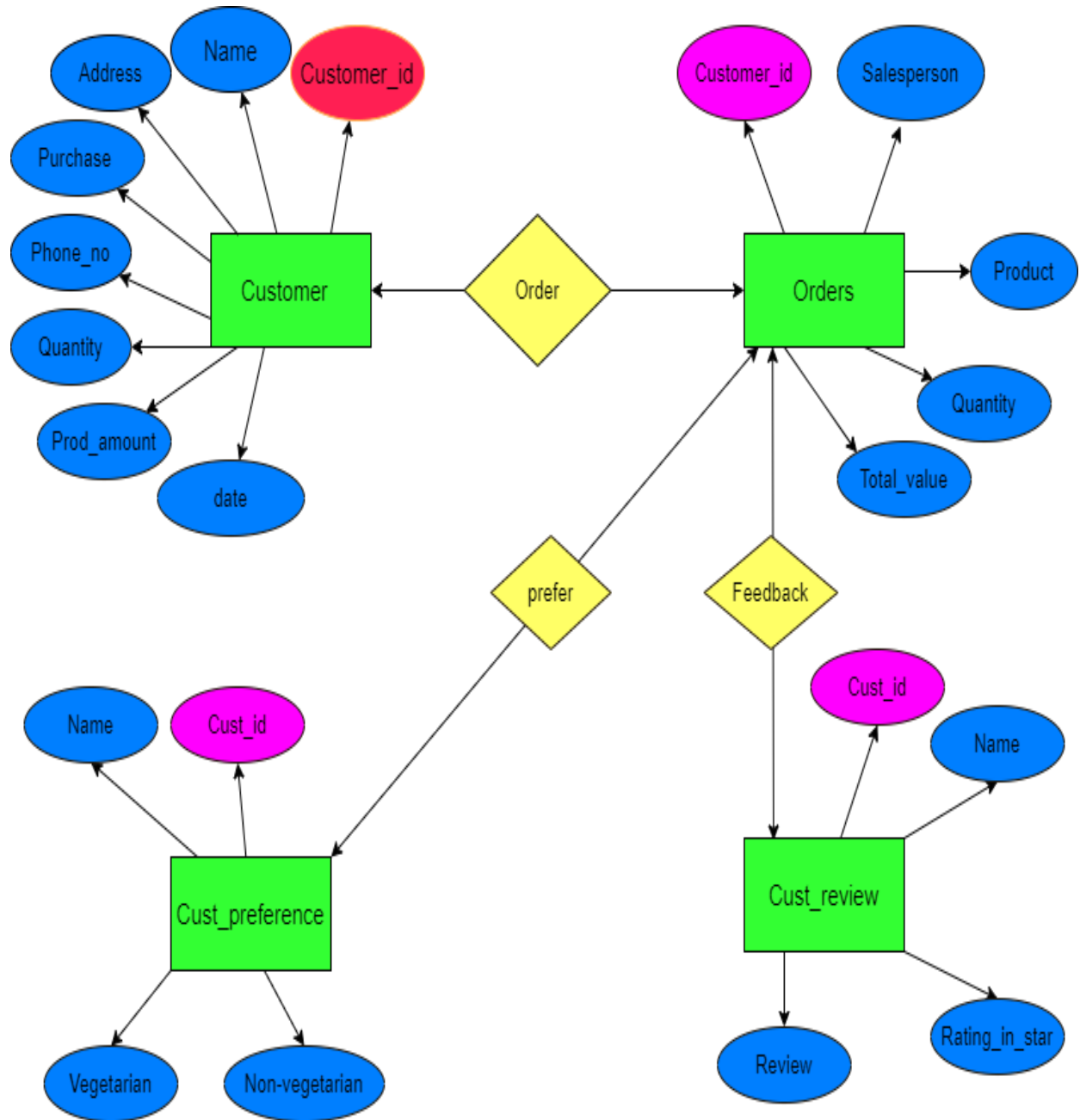
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INTRODUCTION

Food factory management system is the basic need to improve the management level of food enterprises and implement the quality management system of food enterprises. It is a necessary condition for food enterprises to enhance their competitiveness, improve the efficiency of management and improve the quality of production.

ER DIAGRAM

DESC TABLES

```
mysql> desc customer;
+------------------+-------------+------+-----+---------+-------+
| Field            | Type        | Null | Key | Default | Extra |
+------------------+-------------+------+-----+---------+-------+
| Customer_id      | int         | NO   | PRI | NULL    |       |
| Name             | varchar(20) | YES  |     | NULL    |       |
| Address          | varchar(50) | NO   |     | NULL    |       |
| Purchase_items   | varchar(50) | NO   |     | NULL    |       |
| Quantity         | int         | NO   |     | NULL    |       |
| Phone_no         | varchar(50) | NO   |     | NULL    |       |
| Product_amount   | double      | NO   |     | NULL    |       |
| Pay_amount       | double      | NO   |     | NULL    |       |
| Date             | date        | YES  |     | NULL    |       |
| Remaining_amount | int         | YES  |     | NULL    |       |
+------------------+-------------+------+-----+---------+-------+
10 rows in set (0.02 sec)
```

```
mysql> desc orders;
+-------------+-------------+------+-----+---------+-------+
| Field       | Type        | Null | Key | Default | Extra |
+-------------+-------------+------+-----+---------+-------+
| customer_id | int         | YES  | MUL | NULL    |       |
| Salesperson | varchar(30) | YES  |     | NULL    |       |
| Product     | varchar(50) | NO   |     | NULL    |       |
| Quantity    | int         | NO   |     | NULL    |       |
| Total_value | int         | NO   |     | NULL    |       |
+-------------+-------------+------+-----+---------+-------+
5 rows in set (0.00 sec)
```

```
mysql> desc customer_preferences;
+----------------+-------------+------+-----+---------+-------+
| Field          | Type        | Null | Key | Default | Extra |
+----------------+-------------+------+-----+---------+-------+
| customer_id    | int         | YES  | MUL | NULL    |       |
| Name           | varchar(20) | YES  |     | NULL    |       |
| Vegetarian     | varchar(5)  | YES  |     | NULL    |       |
| Non_Vegetarian | varchar(5)  | YES  |     | NULL    |       |
+----------------+-------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

```
mysql> desc customer_review;
+----------------+--------------+------+-----+---------+-------+
| Field          | Type         | Null | Key | Default | Extra |
+----------------+--------------+------+-----+---------+-------+
| customer_id    | int          | YES  | MUL | NULL    |       |
| Name           | varchar(10)  | YES  |     | NULL    |       |
| Rating_in_star | int          | YES  |     | NULL    |       |
| review         | varchar(100) | YES  |     | NULL    |       |
+----------------+--------------+------+-----+---------+-------+
4 rows in set (0.00 sec)
```

SELECT * FROM TABLES

```
mysql> select * from customer;
+-------------+-------------+-----------+---------------------+----------+--------------+----------------+------------+------------+------------------+
| Customer_id | Name        | Address   | Purchase_items      | Quantity | Phone_no     | Product_amount | Pay_amount | Date       | Remaining_amount |
+-------------+-------------+-----------+---------------------+----------+--------------+----------------+------------+------------+------------------+
|        1011 | Mithaivala  | Gujrat    | 4 burgur and 5 Breds|       15 | 937351007    |            750 |        750 | 2022-08-09 |                0 |
|        1012 | Chittos     | Mumbai    | 5 burgur and 10 Breds|      10 | 9373444007   |            500 |        500 | 2022-05-09 |                0 |
|        1013 | Ashapura    | Panvel    | 3 burgur and 3 Breds|        9 | 083526378    |            450 |       1000 | 2022-03-03 |             -550 |
|        1014 | KiaraMart   | Titwala   | 5 burgur and 5 Breds|        2 | 444557788    |            100 |       1000 | 2022-03-08 |             -900 |
|        1015 | Kanif       | Andheri   | 4 burgur and 8 Breds|        9 | 74550295     |            450 |       1000 | 2022-09-30 |             -550 |
|        1016 | Shree       | CST       | 6 burgur and 12 Breds|      13 | 3697531464   |            650 |       1000 | 2022-05-05 |             -350 |
|        1017 | Ganesha     | Kalva     | 3 burgur and 6 Breds|        7 | 9865145789   |            350 |       1000 | 2022-11-06 |             -650 |
|        1018 | Lakshmi     | Diva      | 2 burgur and 4 Breds|        5 | 9865145789   |            250 |        700 | 2021-12-06 |             -450 |
|        1019 | Mahalakshmi | Ghatkopar | 6 burgur and 12 Breds|      13 | 9865145789   |            650 |        800 | 2021-10-26 |             -150 |
|        1020 | Mahala      | Badlapur  | 5 burgur and 10 Breds|      11 | 5567474775   |            550 |        900 | 2020-11-29 |             -350 |
|        1021 | Padukam     | Khopoli   | 2 burgur and  4 Breds|       5 | 3645631464   |            250 |       1000 | 2021-02-18 |             -750 |
|        1022 | shiambo     | Ambarnath | 4 burgur and 8 Breds|        9 | 36456356778  |            450 |        400 | 2021-02-18 |               50 |
|        1023 | shio        | Shahad    | 4 burgur and 8 Breds|        9 | 2364563348   |            450 |        400 | 2022-06-12 |               50 |
|        1024 | Tisai       | vashind   | 7 burgur and 14 Breds|      15 | 236456444458 |            750 |        500 | 2021-06-14 |              250 |
|        1025 | Patel       | Vasi      | 9 burgur and 14 Breds|      10 | 236432415458 |            500 |        700 | 2021-06-24 |             -200 |
|        1026 | Godbole     | virar     | 3 burgur and 6 Breds|       12 | 9594537228   |            600 |        800 | 2022-10-14 |             -200 |
|        1027 | Gokulvala   | Dadar     | 5 burgur and 9 Breds|       25 | 9593388228   |           1250 |       2500 | 2022-10-01 |            -1250 |
|        1028 | Jarpr       | Kopar     | 9 burgur and 8 Breds|        5 | 2293388228   |            250 |        500 | 2022-12-29 |             -250 |
|        1029 | Chavans     | Dombivali | 4 burgur and 8 Breds|       10 | 229554238    |            500 |        500 | 2022-12-09 |                0 |
|        1030 | Vedant      | Thane     | 8 burgur and 16 Breds|       5 | 2232454238   |            250 |        300 | 2022-10-10 |              -50 |
+-------------+-------------+-----------+---------------------+----------+--------------+----------------+------------+------------+------------------+
20 rows in set (0.00 sec)
```

```
mysql> select * from orders;
+-------------+-------------+-----------+-----------+-------------+
| customer_id | Salesperson | Product   | Quantity  | Total_value |
+-------------+-------------+-----------+-----------+-------------+
|        1011 | Bhane       | Onion     |        20 |        2000 |
|        1012 | Bhoir       | Butter    |        20 |        4000 |
|        1013 | Chvan       | Yougurt   |        10 |        1200 |
|        1014 | Borskli     | Butter    |        30 |        9000 |
|        1015 | Dinkle      | Potato    |        30 |        3000 |
|        1016 | Gadhite     | coffee    |        10 |        1500 |
|        1017 | Gaikwad     | Cheese    |        24 |        3000 |
|        1018 | Gavli       | spanish   |        20 |        2000 |
|        1019 | GK          | Butter    |        20 |        2000 |
|        1020 | kadam       | tomato    |        40 |        4000 |
|        1021 | kurade      | mayonise  |        40 |        4000 |
|        1022 | patil       | pork      |        15 |        1500 |
|        1023 | pawar       | juice     |        25 |        2500 |
|        1024 | salim       | tea       |        20 |        2000 |
|        1025 | Gaikwad     | Bun       |       100 |        5000 |
|        1026 | shingte     | mayonise  |        20 |        2000 |
|        1027 | Singh       | Fries     |        45 |        4000 |
|        1028 | Smith       | Butter    |        20 |        4000 |
|        1029 | Tyler       | Poultry   |        15 |        4500 |
|        1030 | Boron       | Butter    |        30 |        9000 |
+-------------+-------------+-----------+-----------+-------------+
20 rows in set (0.00 sec)
```

```
mysql> select * from customer_preferences;
+-------------+-----------+------------+----------------+
| customer_id | Name      | Vegetarian | Non_Vegetarian |
+-------------+-----------+------------+----------------+
|        1011 | gaurav    | Yes        | No             |
|        1012 | Darshan   | Yes        | No             |
|        1013 | Chetan    | Yes        | No             |
|        1014 | prathames | No         | Yes            |
|        1015 | rohan     | Yes        | No             |
|        1016 | saurav    | No         | Yes            |
|        1017 | nilesh    | Yes        | No             |
|        1018 | vaibhav   | No         | Yes            |
|        1019 | parmesh   | Yes        | No             |
|        1020 | jodhi     | No         | Yes            |
|        1021 | ptrachiti | No         | Yes            |
|        1022 | sneha     | No         | Yes            |
|        1023 | ruchira   | No         | Yes            |
|        1024 | jitu      | No         | Yes            |
|        1025 | jitemdra  | Yes        | No             |
|        1026 | sonu      | No         | Yes            |
|        1027 | prajkta   | No         | Yes            |
|        1028 | varsha    | No         | Yes            |
|        1029 | vishal    | Yes        | No             |
|        1030 | santosh   | Yes        | No             |
+-------------+-----------+------------+----------------+
20 rows in set (0.00 sec)
```

```
mysql> select * from customer_review;
+-------------+-----------+----------------+------------------+
| customer_id | Name      | Rating_in_star | review           |
+-------------+-----------+----------------+------------------+
|        1011 | gaurav    |              4 | very good        |
|        1012 | Darshan   |              4 | very good        |
|        1013 | Chetan    |              5 | Excellent        |
|        1014 | prathames |              2 | Bad Food         |
|        1015 | rohan     |              4 | very good        |
|        1016 | saurav    |              4 | very good        |
|        1017 | nilesh    |              2 | Bad Food         |
|        1018 | vaibhav   |              4 | very good        |
|        1019 | parmesh   |              4 | very good        |
|        1020 | jodhi     |              2 | Bad Food         |
|        1021 | ptrachiti |              5 | Excellent        |
|        1022 | sneha     |              5 | Excellent        |
|        1023 | ruchira   |              4 | very good        |
|        1024 | jitu      |              2 | Bad Food         |
|        1025 | jitemdra  |              5 | Excellent        |
|        1026 | sonu      |              1 | Worst Experience |
|        1027 | prajkta   |              5 | Excellent        |
|        1028 | varsha    |              1 | Worst Experience |
|        1029 | vishal    |              5 | Excellent        |
|        1030 | santosh   |              2 | Bad Food         |
+-------------+-----------+----------------+------------------+
20 rows in set (0.00 sec)
```

SUBQUERY

(1) Find a customer and their purchase items that has rating 1.

```
mysql> select customer_id,purchase_items from customer where customer_id
 in(select customer_id from customer_review where rating_in_star=1);
+-------------+----------------------+
| customer_id | purchase_items       |
+-------------+----------------------+
|        1026 | 3 burgur and 6 Breds |
|        1028 | 9 burgur and 8 Breds |
+-------------+----------------------+
2 rows in set (0.00 sec)
```

(2) Find a customer and their purchase items that has rating 2 and 5.

```
mysql> select customer_id, purchase_items from customer where customer_id
in (select customer_id from customer_review where rating_in_star in (2,5))
;
+-------------+-----------------------+
| customer_id | purchase_items        |
+-------------+-----------------------+
|        1013 | 3 burgur and 3 Breds  |
|        1014 | 5 burgur and 5 Breds  |
|        1017 | 3 burgur and 6 Breds  |
|        1020 | 5 burgur and 10 Breds |
|        1021 | 2 burgur and  4 Breds |
|        1022 | 4 burgur and 8 Breds  |
|        1024 | 7 burgur and 14 Breds |
|        1025 | 9 burgur and 14 Breds |
|        1027 | 5 burgur and 9 Breds  |
|        1029 | 4 burgur and 8 Breds  |
|        1030 | 8 burgur and 16 Breds |
+-------------+-----------------------+
11 rows in set (0.00 sec)
```

(3) Find a vegetarian customer and show their customer, name and their purchase items

```
mysql> select customer_id,name ,purchase_items from customer where customer_id
in(select customer_id from customer_preferences where vegetarian ='Yes');
+-------------+-------------+-----------------------+
| customer_id | name        | purchase_items        |
+-------------+-------------+-----------------------+
|        1011 | Mithaivala  | 4 burgur and 5 Breds  |
|        1012 | Chittos     | 5 burgur and 10 Breds |
|        1013 | Ashapura    | 3 burgur and 3 Breds  |
|        1015 | Kanif       | 4 burgur and 8 Breds  |
|        1017 | Ganesha     | 3 burgur and 6 Breds  |
|        1019 | Mahalakshmi | 6 burgur and 12 Breds |
|        1025 | Patel       | 9 burgur and 14 Breds |
|        1029 | Chavans     | 4 burgur and 8 Breds  |
|        1030 | Vedant      | 8 burgur and 16 Breds |
+-------------+-------------+-----------------------+
9 rows in set (0.00 sec)
```

(4) Find a name and review in total value of worth more than 4000

```
mysql> select name,review from customer_review where customer_id
in(select customer_id from orders where total_value >4000);
+-----------+-----------+
| name      | review    |
+-----------+-----------+
| prathames | Bad Food  |
| jitemdra  | Excellent |
| vishal    | Excellent |
| santosh   | Bad Food  |
+-----------+-----------+
4 rows in set (0.00 sec)
```

(5) Find the name of customer who purcahse the butter.

```
mysql> select name from customer_review where customer_id in
(select customer_id from orders where product ='Butter');
+-----------+
| name      |
+-----------+
| Darshan   |
| prathames |
| parmesh   |
| varsha    |
| santosh   |
+-----------+
5 rows in set (0.00 sec)
```

JOINS

```
mysql> Select customer.customer_id,customer_preferences.name,customer_preferences.vegetarian from customer
 INNER JOIN customer_preferences ON customer.customer_id=customer_preferences.customer_id;
+-------------+-----------+------------+
| customer_id | name      | vegetarian |
+-------------+-----------+------------+
|        1011 | gaurav    | Yes        |
|        1012 | Darshan   | Yes        |
|        1013 | Chetan    | Yes        |
|        1014 | prathames | No         |
|        1015 | rohan     | Yes        |
|        1016 | saurav    | No         |
|        1017 | nilesh    | Yes        |
|        1018 | vaibhav   | No         |
|        1019 | parmesh   | Yes        |
|        1020 | jodhi     | No         |
|        1021 | ptrachiti | No         |
|        1022 | sneha     | No         |
|        1023 | ruchira   | No         |
|        1024 | jitu      | No         |
|        1025 | jitemdra  | Yes        |
|        1026 | sonu      | No         |
|        1027 | prajkta   | No         |
|        1028 | varsha    | No         |
|        1029 | vishal    | Yes        |
|        1030 | santosh   | Yes        |
+-------------+-----------+------------+
20 rows in set (0.00 sec)
```

```
mysql> select customer.customer_id,customer.purchase_items,customer_review.Name,customer_review.review
from customer LEFT JOIN customer_review ON customer.customer_id=customer_review.customer_id;
+-------------+----------------------+-----------+------------------+
| customer_id | purchase_items       | Name      | review           |
+-------------+----------------------+-----------+------------------+
|        1011 | 4 burgur and 5 Breds | gaurav    | very good        |
|        1012 | 5 burgur and 10 Breds | Darshan  | very good        |
|        1013 | 3 burgur and 3 Breds | Chetan    | Excellent        |
|        1014 | 5 burgur and 5 Breds | prathames | Bad Food         |
|        1015 | 4 burgur and 8 Breds | rohan     | very good        |
|        1016 | 6 burgur and 12 Breds | saurav   | very good        |
|        1017 | 3 burgur and 6 Breds | nilesh    | Bad Food         |
|        1018 | 2 burgur and 4 Breds | vaibhav   | very good        |
|        1019 | 6 burgur and 12 Breds | parmesh  | very good        |
|        1020 | 5 burgur and 10 Breds | jodhi    | Bad Food         |
|        1021 | 2 burgur and  4 Breds | ptrachiti | Excellent       |
|        1022 | 4 burgur and 8 Breds | sneha     | Excellent        |
|        1023 | 4 burgur and 8 Breds | ruchira   | very good        |
|        1024 | 7 burgur and 14 Breds | jitu     | Bad Food         |
|        1025 | 9 burgur and 14 Breds | jitemdra | Excellent        |
|        1026 | 3 burgur and 6 Breds | sonu      | Worst Experience |
|        1027 | 5 burgur and 9 Breds | prajkta   | Excellent        |
|        1028 | 9 burgur and 8 Breds | varsha    | Worst Experience |
|        1029 | 4 burgur and 8 Breds | vishal    | Excellent        |
|        1030 | 8 burgur and 16 Breds | santosh  | Bad Food         |
+-------------+----------------------+-----------+------------------+
20 rows in set (0.00 sec)
```

```
mysql> select customer.customer_id,customer.name,orders.salesperson,orders.product,orders.quantity,
orders.total_value from customer RIGHT JOIN orders ON customer.customer_id=orders.customer_id;
+-------------+-------------+-------------+----------+----------+-------------+
| customer_id | name        | salesperson | product  | quantity | total_value |
+-------------+-------------+-------------+----------+----------+-------------+
|        1011 | Mithaivala  | Bhane       | Onion    |       20 |        2000 |
|        1012 | Chittos     | Bhoir       | Butter   |       20 |        4000 |
|        1013 | Ashapura    | Chvan       | Yougurt  |       10 |        1200 |
|        1014 | KiaraMart   | Borskli     | Butter   |       30 |        9000 |
|        1015 | Kanif       | Dinkle      | Potato   |       30 |        3000 |
|        1016 | Shree       | Gadhite     | coffee   |       10 |        1500 |
|        1017 | Ganesha     | Gaikwad     | Cheese   |       24 |        3000 |
|        1018 | Lakshmi     | Gavli       | spanish  |       20 |        2000 |
|        1019 | Mahalakshmi | GK          | Butter   |       20 |        2000 |
|        1020 | Mahala      | kadam       | tomato   |       40 |        4000 |
|        1021 | Padukam     | kurade      | mayonise |       40 |        4000 |
|        1022 | shiambo     | patil       | pork     |       15 |        1500 |
|        1023 | shio        | pawar       | juice    |       25 |        2500 |
|        1024 | Tisai       | salim       | tea      |       20 |        2000 |
|        1025 | Patel       | Gaikwad     | Bun      |      100 |        5000 |
|        1026 | Godbole     | shingte     | mayonise |       20 |        2000 |
|        1027 | Gokulvala   | Singh       | Fries    |       45 |        4000 |
|        1028 | Jarpr       | Smith       | Butter   |       20 |        4000 |
|        1029 | Chavans     | Tyler       | Poultry  |       15 |        4500 |
|        1030 | Vedant      | Boron       | Butter   |       30 |        9000 |
+-------------+-------------+-------------+----------+----------+-------------+
20 rows in set (0.00 sec)
```

```
mysql> select customer_review.customer_id,customer.name,customer.address,customer.phone_no from
 customer_review LEFT JOIN customer ON customer_review.customer_id=customer.customer_id UNION s
elect customer_review.customer_id,customer.name,customer.address,customer.phone_no from custome
r_review RIGHT JOIN customer ON customer_review.customer_id=customer.customer_id;
+-------------+-------------+-----------+--------------+
| customer_id | name        | address   | phone_no     |
+-------------+-------------+-----------+--------------+
|        1011 | Mithaivala  | Gujrat    | 937351007    |
|        1012 | Chittos     | Mumbai    | 9373444007   |
|        1013 | Ashapura    | Panvel    | 083526378    |
|        1014 | KiaraMart   | Titwala   | 444557788    |
|        1015 | Kanif       | Andheri   | 74550295     |
|        1016 | Shree       | CST       | 3697531464   |
|        1017 | Ganesha     | Kalva     | 9865145789   |
|        1018 | Lakshmi     | Diva      | 9865145789   |
|        1019 | Mahalakshmi | Ghatkopar | 9865145789   |
|        1020 | Mahala      | Badlapur  | 5567474775   |
|        1021 | Padukam     | Khopoli   | 3645631464   |
|        1022 | shiambo     | Ambarnath | 36456356778  |
|        1023 | shio        | Shahad    | 2364563348   |
|        1024 | Tisai       | vashind   | 236456444458 |
|        1025 | Patel       | Vasi      | 236432415458 |
|        1026 | Godbole     | virar     | 9594537228   |
|        1027 | Gokulvala   | Dadar     | 9593388228   |
|        1028 | Jarpr       | Kopar     | 2293388228   |
|        1029 | Chavans     | Dombivali | 229554238    |
|        1030 | Vedant      | Thane     | 2232454238   |
+-------------+-------------+-----------+--------------+
20 rows in set (0.04 sec)
```

MULTIPLE TABLE VIEW

```
mysql> create view customerview as select customer.customer_id,customer.purchase_items,custo
mer_review.name,customer_review.review from customer,customer_review where customer.customer
_id=customer_review.customer_id;

mysql> select * from customerview;
+-------------+-----------------------+-----------+------------------+
| customer_id | purchase_items        | name      | review           |
+-------------+-----------------------+-----------+------------------+
|        1011 | 4 burgur and 5 Breds  | gaurav    | very good        |
|        1012 | 5 burgur and 10 Breds | Darshan   | very good        |
|        1013 | 3 burgur and 3 Breds  | Chetan    | Excellent        |
|        1014 | 5 burgur and 5 Breds  | prathames | Bad Food         |
|        1015 | 4 burgur and 8 Breds  | rohan     | very good        |
|        1016 | 6 burgur and 12 Breds | saurav    | very good        |
|        1017 | 3 burgur and 6 Breds  | nilesh    | Bad Food         |
|        1018 | 2 burgur and 4 Breds  | vaibhav   | very good        |
|        1019 | 6 burgur and 12 Breds | parmesh   | very good        |
|        1020 | 5 burgur and 10 Breds | jodhi     | Bad Food         |
|        1021 | 2 burgur and  4 Breds | ptrachiti | Excellent        |
|        1022 | 4 burgur and 8 Breds  | sneha     | Excellent        |
|        1023 | 4 burgur and 8 Breds  | ruchira   | very good        |
|        1024 | 7 burgur and 14 Breds | jitu      | Bad Food         |
|        1025 | 9 burgur and 14 Breds | jitemdra  | Excellent        |
|        1026 | 3 burgur and 6 Breds  | sonu      | Worst Experience |
|        1027 | 5 burgur and 9 Breds  | prajkta   | Excellent        |
|        1028 | 9 burgur and 8 Breds  | varsha    | Worst Experience |
|        1029 | 4 burgur and 8 Breds  | vishal    | Excellent        |
|        1030 | 8 burgur and 16 Breds | santosh   | Bad Food         |
+-------------+-----------------------+-----------+------------------+
20 rows in set (0.00 sec)
```