

(DBMS PROJECT REPORT)

END SEMESTER EVALUATION

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INTRODUCTION AND PROJECT OVERVIEW

The purpose of this project is to provide an online food delivery system.

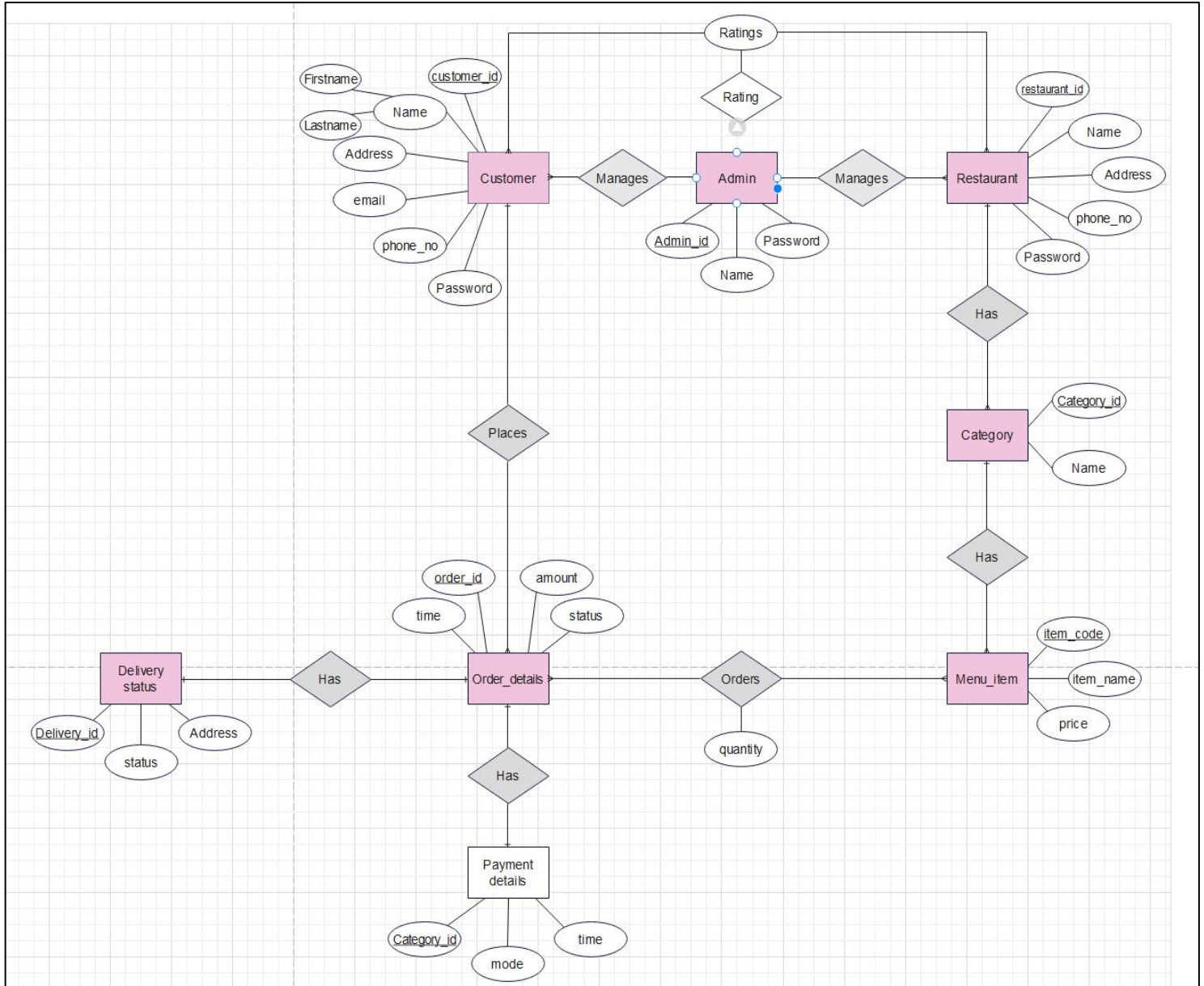
Online Food ordering system is a process in which one can order various foods and beverages from some local restaurant and hotels through the use of internet, just by sitting at home or any place. And the order is delivered to the told location. Nowadays everyone is having busy schedule whether it is urban area or rural. But talking specifically about the urban areas and deeply about the big cities, people out there are so busy in their life that they don't get enough of time to have their meals properly. As these days women are no less than men, in any field. So in big cities even wives are working women, therefore mostly the small families manage to have their food ordered from somewhere, as they lack time. Not only this is the case, if we talk about the children in the modern era they like only fast food or something from the outside. But they ignore eating homemade meals.

So food ordering system these days has one of the fastest growing market, though being a new idea. In this project we have developed something like the same to earn from and serve the nation in a much better way possible. Nowadays, people are more regular to dine-in at restaurant for their meals. The online food ordering system provides convenience for the customers that are nothing special but the general busy people of the society. It overcomes the demerits of the manual hotel or mess system and the old fashioned queuing system. This system enhances the readymade of foods than people.

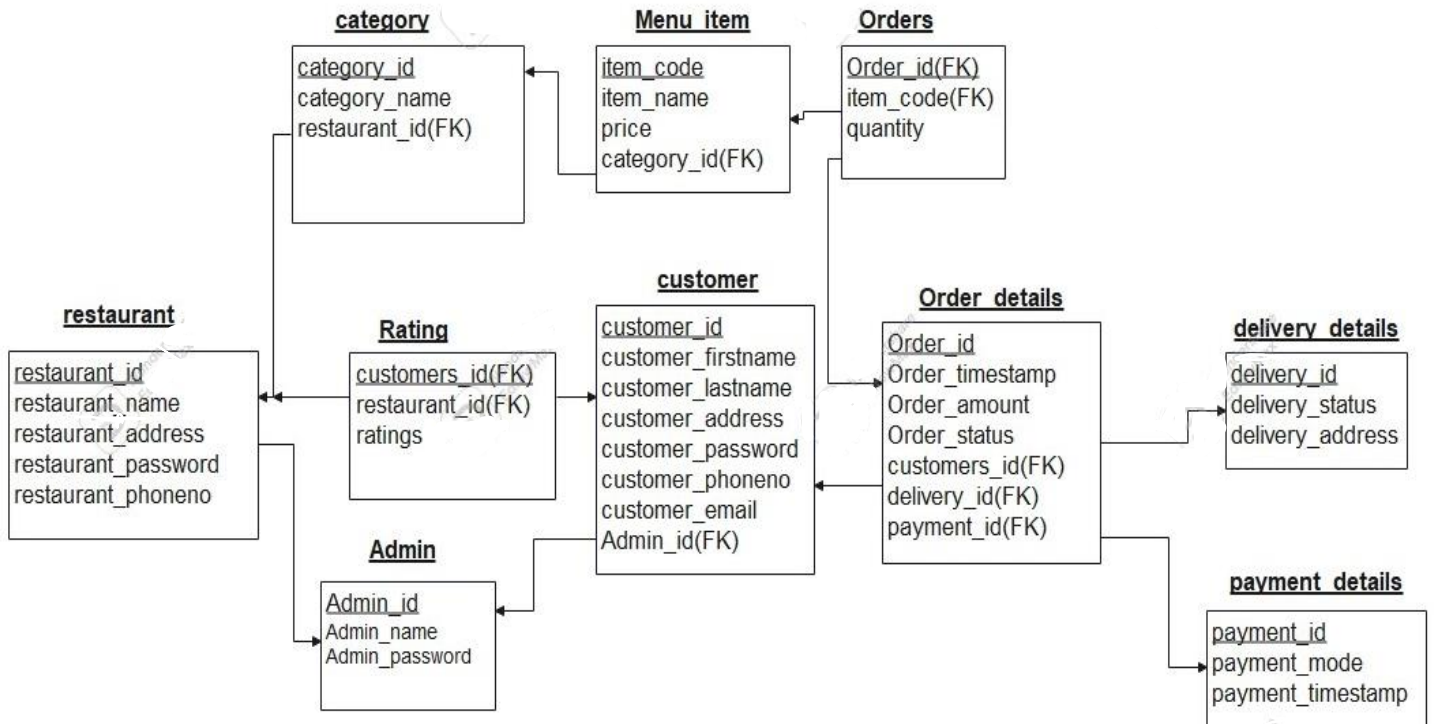
Therefore, this system enhances the speed of getting food in person's plate and quality and manner of taking the order from the customer. It provides a better communication platform. The user's details are stored using the electronic media. The online food ordering system provides the menu online and the customers can easily place the order by just clicking the mouse or by touching a button on their smart phones. Also with the food ordering system online, people can easily track their orders, and admin can maintain customer's database and advance the food delivery system.

This food ordering system allows the user to select the desired food items from a list of available menu items provided by the local hotel or restaurant. The user can place orders for the food items of their like from the list. The payment can be made online or pay-on-delivery system. The user's details are maintained confidential because it maintains a separate account for each user. An id and password is provided for each user. And several encryption techniques have also been used on the server side to protect the card details. Therefore it provides a more secured and safe ordering system.

ER DIAGRAM



ER TO TABLE



NORMALIZATION

- **Customer(Customer_id (KEY), first_name, last_name, address, password, email, phone_no)**

Customer_id => first_name

Customer_id => last_name

Customer_id => address

Customer_id => password

Customer_id => email

Customer_id => phone_no

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key
- **BCNF** as it is in 3NF and every determinant is a primary key.

- **Restaurant(Restaurant_id (KEY), Restaurant_name, Restaurant_address, Restaurant_password , Restaurant_phone _no)**

Restaurant_id => Restaurant_name

Restaurant_id => Restaurant_address

Restaurant_id => Restaurant_password

Restaurant_id => Restaurant_phone _no

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key.
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- **BCNF** as it is in 3NF and every determinant is a primary key.

- **Ratings((customer_id (KEY), restaurant_id, rating)**

customer_id, restaurant_id => rating

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key.
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- **BCNF** as it is in 3NF and every determinant is a primary key.

- **Admin(Admin_id (KEY), admin_name, admin_password)**

Admin_id => admin_name

Admin_id => Admin_password

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- **BCNF** as it is in 3NF and every determinant is a primary key.

- **Category(Category_id (KEY), Category_name)**

Category_id => Category_name

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- **BCNF** as it is in 3NF and every determinant is a primary key
Category_id is the key.

- **Menu_item(item_code (KEY), item_name, price)**

Item_code=>item_name

Item_code=>price

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key
- **BCNF** as it is in 3NF and every determinant is a primary key.

- **Order_details(Order_id,Order_time,Order_amount, Order_status)**

Order_id => Order_time

Order_id => Order_amount

Order_id => Order_amount

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- **BCNF** as it is in 3NF and every determinant is a primary key.

- **Order(order_id,item_code,quantity)**

{Order_id,item_code}>=>quantity

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- **BCNF** as it is in 3NF and every determinant is a primary key.

Order_id,item_code is the composite primary key.

- **Payment_details(payment_id (KEY), payment_mode, payment_time)**
payment_id=>payment_mode
payment_id=>payment_time

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- **BCNF** as it is in 3NF and every determinant is a primary key.

- **Delivery_details(delivery_id (KEY), delivery_address, delivery_status)**
delivery_id=>delivery_address
delivery_id=>delivery_status

The above table is in :-

- **1NF** as it does not contain any multivalued attribute.
- **2NF** as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- **BCNF** as it is in 3NF and every determinant is a primary key.

SQL/PLSQL CODES

```
CREATE TABLE Admin(  
Admin_id number(8) primary key,  
Admin_name varchar(15) NOT NULL,  
Admin_password varchar(16) NOT NULL);  
INSERT INTO Admin VALUES (01,'Team-GBH','GBH-@123');
```

```
1 CREATE TABLE Admin(  
2 Admin_id number(8) primary key,  
3 Admin_name varchar(15) NOT NULL,  
4 Admin_password varchar(16) NOT NULL);  
5 INSERT INTO Admin VALUES (01,'Team-GBH','GBH-@123');  
6 select * from Admin
```

ADMIN_ID	ADMIN_NAME	ADMIN_PASSWORD
1	Team-GBH	GBH-@123

```
CREATE TABLE customer(  
customer_id number(8) primary key,  
customer_firstname varchar(30) NOT NULL,  
customer_lastname varchar(30) NOT NULL,  
customer_password varchar(16) NOT NULL,  
customer_phoneno varchar(10) NOT NULL,  
customer_address varchar(50) NOT NULL,  
customer_email varchar(20) NOT NULL,  
Admin_id int references Admin(Admin_id));  
INSERT INTO customer VALUES  
(01,'Harsh','Mehta','harsh#212',7435068222,'1st Cross,Rammurthy  
nagar,Bangalore', 'mehta19@gmail.com',01);  
INSERT INTO customer VALUES  
(02,'Jainam','Shah','Jainu$820',9924567892,'117, Examiner Road,  
Fort,Mumbai, Maharashtra','jainam33@gmail.com',01);  
INSERT INTO customer VALUES  
(03,'Ishaan','Dawra','bmw@765',9874578428,'1723,Opp. Clock Tower  
Ludhiana,Punjab','ishaan@gmail.com',01);  
INSERT INTO customer VALUES  
(04,'James','Heckins','Dodge@985',8902345789,'Bee H-138,  
Kodambakkam Road,Chennai, Karnataka','james23@gmail.com',01);  
INSERT INTO customer VALUES  
(05,'Muskanpreet','Kaur','lovi@123',9934654319,'854,Guru Nanak Nagar  
Amritsar, Punjab','muskan@gmail.com',01);
```

```

INSERT INTO customer VALUES
(06,'Karanpreet','Singh','rocket@123',7734688001,'Opp. Satsang
Bhawan,Beas,Punjab','karan12@gmail.com',01);
INSERT INTO customer VALUES
(07,'Divyanka','Kapoor','Cat@123',9867445890,'A/3, Alpha
City,Mumbai,Maharashtra','div3421@gmail.com',01);
INSERT INTO customer VALUES
(08,'Rustom','Pavri','Rustom&993',8839950081,'134,14,Nagarathpet
Main Road,Banglore,Karnataka','pavri44@gmail.com',01);
INSERT INTO customer VALUES
(09,'Lovish','Singla','love@123',9891444976,'754 Arjan Dev
Nagar,Amritsar,Punjab','lovish50@gmail.com',01);
INSERT INTO customer VALUES
(10,'Jogesh','Das','Jogesh@231',8870080010,'854 Gali No.1 Mujessar,Ram
Colony,Haryana','dasjogesh5@gmail.com',01);

```

```

7 CREATE TABLE customer(
8 customer_id number(8) primary key,
9 customer_firstname varchar(30) NOT NULL,
10 customer_lastname varchar(30) NOT NULL,
11 customer_password varchar(30) NOT NULL,
12 customer_phoneno number,
13 customer_address varchar(30) NOT NULL,
14 customer_email varchar(30) NOT NULL,
15 Admin_id int references Admin(Admin_id));
16 INSERT INTO customer VALUES (01,'Harsh','Mehta','harsh#212',7435068222,'1st Rammurthy nagar,Bangalore', 'mehta19@gmail.com',01);
17 INSERT INTO customer VALUES (02,'Jainam','Shah','Jainu$820',9924567892,'Examiner Road,Mumbai','jainam33@gmail.com',01);
18 INSERT INTO customer VALUES (03,'James','Heckins','Dodge@985',8902345789,'H-138, bakkam Road,Chennai', 'james23@gmail.com',01);
19 INSERT INTO customer VALUES (04,'Muskanpreet','Kaur','lovi@123',9934654319,'854,Guru Nanak Nagar, Amritsar', 'muskan@gmail.com',01);
20 INSERT INTO customer VALUES (05,'Karanpreet','Singh','rocket@123',7734688001,'Opp. Satsang Bhawan,Beas', 'karan12@gmail.com',01);
21 INSERT INTO customer VALUES (06,'Divyanka','Kapoor','Cat@123',9867445890,'A/3, Alpha City,Mumbai', 'div3421@gmail.com',01);
22 INSERT INTO customer VALUES (07,'Lovish','Singla','love@123',9891444976,'754 Arjan Dev Nagar,Amritsar', 'lovish50@gmail.com',01);
23 INSERT INTO customer VALUES (08,'Harsh','Mehta','harsh#212',7435068222,'1st Rammurthy nagar,Bangalore', 'mehta19@gmail.com',01);
24 INSERT INTO customer VALUES (09,'Ishaan','Dawra','bmu@765',9874578428,'1723,Opp. Clock Tower,Ludhiana', 'ishaan@gmail.com',01);
25 INSERT INTO customer VALUES (10,'Rustom','Pavri','Rustom&993',8839950081,'134,Nagarathpet Road,Banglore', 'pavri44@gmail.com',01);
26 INSERT INTO customer VALUES (11,'Jogesh','Das','Jogesh@231',8870080010,'854 ,Ram Colony,gurgaon', 'dasjogesh5@gmail.com',01);
27 INSERT INTO customer VALUES (12,'Joe','Biden','bid#69',9874655881,'Kaziranga, Meghalaya', 'joe@gmail.com',01);

```

CUSTOMER_ID	CUSTOMER_FIRSTNAME	CUSTOMER_LASTNAME	CUSTOMER_PASSWORD	CUSTOMER_PHONENO	CUSTOMER_ADDRESS	CUSTOMER_EMAIL	ADMIN_ID
2	Jainam	Shah	Jainu\$820	9924567892	Examiner Road,Mumbai	jainam33@gmail.com1	1
4	James	Heckins	Dodge@985	8902345789	H-138, bakkam Road,Chennai	james23@gmail.com	1
5	Muskanpreet	Kaur	lovi@123	9934654319	854,Guru Nanak Nagar, Amritsar	muskan@gmail.com	1
6	Karanpreet	Singh	rocket@123	7734688001	Opp. Satsang Bhawan,Beas	karan12@gmail.com	1
7	Divyanka	Kapoor	Cat@123	9867445890	A/3, Alpha City,Mumbai	div3421@gmail.com	1
9	Lovish	Singla	love@123	9891444976	754 Arjan Dev Nagar,Amritsar	lovish50@gmail.com	1
1	Harsh	Mehta	harsh#212	7435068222	1st Rammurthy nagar,Bangalore	mehta19@gmail.com	1
3	Ishaan	Dawra	bmu@765	9874578428	1723,Opp. Clock Tower,Ludhiana	ishaan@gmail.com	1
8	Rustom	Pavri	Rustom&993	8839950081	134,Nagarathpet Road,Banglore	pavri44@gmail.com	1
10	Jogesh	Das	Jogesh@231	8870080010	854 ,Ram Colony,gurgaon	dasjogesh5@gmail.com	1
11	Joe	Biden	bid#69	9874655881	Kaziranga, Meghalaya	joe@gmail.com	1

```

CREATE TABLE restaurant(
Admin_id number(8) references Admin(Admin_id),
restaurant_id number(8) primary key,
restaurant_name varchar(20) NOT NULL,
restaurant_address varchar(50) NOT NULL,
restaurant_password varchar(16) NOT NULL,
restaurant_phoneno varchar(10) NOT NULL
);
INSERT INTO restaurant VALUES(01,111,'China
Town','66,Residency,Bengaluru,Karnataka','ct@111',8066606969);
INSERT INTO restaurant VALUES(01,112,'Leaf Hatch','F-
30,Sampige,Chennai,Tamil Nadu','LHat@112',8762204545);

```

```

INSERT INTO restaurant VALUES(01,113,'Spicy Terrace','24,Ashok
nagar,Ludhiana,Punjab','SpiT@113',8067189999);
INSERT INTO restaurant VALUES(01,114,'Yay Mumbaar','Raheja Tower,
Mumbai,Maharashtra','YaM@l14',9458262800);
INSERT INTO restaurant VALUES(01,115,'Boombox','Sector-17
Chandigarh,Punjab','Boom#115',9773818001);
INSERT INTO restaurant VALUES(01,116,'Sowento','Level-8, Connaught
Place, New Delhi, Delhi','Sow@l16',1141191040);
INSERT INTO restaurant VALUES(01,117,'Taj Hotel','154 Khan Market,
India Gate, New Delhi','tajr@117',1166566162);
INSERT INTO restaurant VALUES(01,118,'Haveli','B-Block,Ranjit
Avenue,Anritsar,Punjab','haveli@118',4428368333);
INSERT INTO restaurant VALUES(01,119,'Chauki Ghani','Jandiala
Rd,Amritsar,Punjab','Cg@119',8054343839);
INSERT INTO restaurant VALUES(01,120,'Kobe sizzler','Main City
centre,Gurgaon,Haryana','Kobe@120',8889323457);

```

```

27 CREATE TABLE restaurant(
28 Admin_id number(8) references Admin(Admin_id),
29 restaurant_id number(8) primary key,
30 restaurant_name varchar(20) NOT NULL,
31 restaurant_address varchar(50) NOT NULL,
32 restaurant_password varchar(16) NOT NULL,
33 restaurant_phoneno number );
34 INSERT INTO restaurant VALUES(01,111,'China Town','66,Residency,Bengaluru,Karnataka','ct@111',8066606969);
35 INSERT INTO restaurant VALUES(01,112,'Leaf Hatch','F-30,Sampige,Chennai,Tamil Nadu','LHat@112',8762204545);
36 INSERT INTO restaurant VALUES(01,113,'Spicy Terrace','24,Ashok nagar,Ludhiana,Punjab','SpiT@113',8067189999);

```

ADMIN_ID	RESTAURANT_ID	RESTAURANT_NAME	RESTAURANT_ADDRESS	RESTAURANT_PASSWORD	RESTAURANT_PHONENO
1	111	China Town	66,Residency,Bengaluru,Karnataka	ct@111	8066606969
1	112	Leaf Hatch	F-30,Sampige,Chennai,Tamil Nadu	LHat@112	8762204545
1	113	Spicy Terrace	24,Ashok nagar,Ludhiana,Punjab	SpiT@113	8067189999
1	114	Yay Mumbaar	Raheja Tower, Mumbai,Maharashtra	YaM@l14	9458262800
1	115	Boombox	Sector-17 Chandigarh,Punjab	Boom#115	9773818001
1	116	Sowento	Level-8, Connaught Place, New Delhi, Delhi	Sow@l16	1141191040
1	117	Taj Hotel	154 Khan Market, India Gate, New Delhi	tajr@117	1166566162
1	118	Haveli	B-Block,Ranjit Avenue,Anritsar,Punjab	haveli@118	4428368333
1	119	Chauki Ghani	Jandiala Rd,Amritsar,Punjab	Cg@119	8054343839
1	120	Kobe sizzler	Main City centre,Gurgaon,Haryana	Kobe@120	8889323457

```

CREATE TABLE category(
category_id number(8) primary key,
category_name varchar(15) NOT NULL,
restaurant_id number(8) references restaurant(restaurant_id)
);
INSERT INTO category VALUES (201,'SOUTH-INDIAN','112');
INSERT INTO category VALUES (202,'CHINESE','111');
INSERT INTO category VALUES (203,'ALL','115');
INSERT INTO category VALUES (204,'INDONESIOAN','113');
INSERT INTO category VALUES (205,'KATHIAWADI','114');

```

```

INSERT INTO category VALUES (206,'PUNJABI','118');
INSERT INTO category VALUES (207,'RAJASTHANI','119');
INSERT INTO category VALUES (208,'DESSERTS','120');
INSERT INTO category VALUES (209,'NORTH-INDIAN ','116');
INSERT INTO category VALUES (210,'CONTINENTAL','117');

```

```

45 CREATE TABLE category(
46   category_id number(8) primary key,
47   category_name varchar(15) NOT NULL,
48   restaurant_id number(8) references restaurant(restaurant_id)
49 );
50 INSERT INTO category VALUES (201,'SOUTH-INDIAN','112');
51 INSERT INTO category VALUES (202,'CHINESE','111');
52 INSERT INTO category VALUES (203,'ALL','115');
53 INSERT INTO category VALUES (204,'INDONESIOAN','113');
54 INSERT INTO category VALUES (205,'KATHIAWADI','114');
55 INSERT INTO category VALUES (206,'PUNJABI','118');
56 INSERT INTO category VALUES (207,'RAJASTHANI','119');

```

CATEGORY_ID	CATEGORY_NAME	RESTAURANT_ID
201	SOUTH-INDIAN	112
202	CHINESE	111
203	ALL	115
204	INDONESIOAN	113
205	KATHIAWADI	114
206	PUNJABI	118
207	RAJASTHANI	119
208	DESSERTS	120
209	NORTH-INDIAN	116
210	CONTINENTAL	117

```

CREATE TABLE Menu_items(
item_code number(8) primary key,
item_name varchar(20) NOT NULL,
Price number(8) NOT NULL,
category_id number(8) references category(category_id)
);
INSERT INTO Menu_items VALUES(301,'White Pasta',230,203);
INSERT INTO Menu_items VALUES(302,'Alfredo Pasta',200,203);
INSERT INTO Menu_items VALUES(303,'Tandoori pizza',400,203);
INSERT INTO Menu_items VALUES(304,'Masala dosa',300,201);
INSERT INTO Menu_items VALUES(305,'uttampam',115,201);
INSERT INTO Menu_items VALUES(306,'idli-vada-sambhar',120,201);
INSERT INTO Menu_items VALUES(307,'Amritsari Kulcha',120,206);
INSERT INTO Menu_items VALUES(308,'Paneer parantha',250,206);
INSERT INTO Menu_items VALUES(309,'Bhature Chole',100,209);
INSERT INTO Menu_items VALUES(310,'Dry manchrian',200,202);
INSERT INTO Menu_items VALUES(311,'CHINESE BHEL',150,202);
INSERT INTO Menu_items VALUES(312,'Fried rice',210,202);
INSERT INTO Menu_items VALUES(313,'lasaniya bataka',250,210);
INSERT INTO Menu_items VALUES(314,'rigan no olo',300,210);
INSERT INTO Menu_items VALUES(315,'sev tameta nu shaak',220,205);
INSERT INTO Menu_items VALUES(316,'waffle',220,208);
INSERT INTO Menu_items VALUES(317,'chocolate brownie',115,208);
INSERT INTO Menu_items VALUES(318,'pancakes',120,208);
INSERT INTO Menu_items VALUES(319,'burger',55,203);
INSERT INTO Menu_items VALUES(320,'french fries',100,203);
INSERT INTO Menu_items VALUES(321,'muskabun',25,209);
INSERT INTO Menu_items VALUES(322,'peach mojito ',180,207);
INSERT INTO Menu_items VALUES(323,'hazlenut coffee',135,207);
INSERT INTO Menu_items VALUES(324,'kewi juice',90,207);
INSERT INTO Menu_items VALUES(325,'French toast',100,209);
INSERT INTO Menu_items VALUES(326,'Pancakes ',180,208);
INSERT INTO Menu_items VALUES(327,'Steaks',335,210);

```

```

61 CREATE TABLE Menu_items(
62 item_code number(8) primary key,
63 item_name varchar(20) NOT NULL,
64 Price number(8) NOT NULL,
65 category_id number(8) references category(category_id));
66
67

```

ITEM_CODE	ITEM_NAME	PRICE	CATEGORY_ID
301	White Pasta	230	203
302	Alfredo Pasta	200	203
304	Masala dosa	300	201
305	uttampam	115	201
306	idli-vada-sambhar	120	201
307	Amritsari Kulcha	120	206
308	Paneer parantha	250	206
309	Bhature Chole	100	209
310	Dry manchrian	200	202
311	CHINESE BHEL	150	202
312	Fried rice	210	202
313	lasaniya bataka	250	210
314	rigan no olo	300	210
315	sev tameta nu shaak	220	205
316	waffle	220	208
317	chocolate brownie	115	208

318	pancakes	120	208
319	burger	55	203
320	french fries	100	203
321	muskabun	25	209
322	peach mojito	180	207
323	hazlenut coffee	135	207
324	kewi juice	90	207
325	French toast	100	209
326	Pancakes	180	208
327	Steaks	335	210
303	Tandoori pizza	400	203

```

CREATE TABLE Payment_details(
payment_id number(8) primary key,
payment_mode varchar(15) NOT NULL,
payment_timestamp timestamp NOT NULL
);
INSERT INTO Payment_details VALUES (501,'PayTM','15-NOV-2022
11:12:33');
INSERT INTO Payment_details VALUES (502,'COD','11-NOV-2022
9:06:30');
INSERT INTO Payment_details VALUES (503,'CARD','22-NOV-2022
1:10:22');
INSERT INTO Payment_details VALUES (504,'COD','02-NOV-2021
5:12:03');
INSERT INTO Payment_details VALUES (506,'GPay','27-OCT-2021
01:13:13');
INSERT INTO Payment_details VALUES (507,'CARD','09-NOV-2022
09:08:48');
INSERT INTO Payment_details VALUES (508,'COD','28-OCT-2021
10:07:53');
INSERT INTO Payment_details VALUES (509,'PhonePe','05-NOV-2022
7:17:37');
INSERT INTO Payment_details VALUES(510,'Mobkwik','16-NOV-2022
9:19:22');

```

```
95 CREATE TABLE Payment_details(
96 payment_id number(8) primary key,
97 payment_mode varchar(15) NOT NULL,
98 payment_timestamp timestamp NOT NULL);
```

PAYMENT_ID	PAYMENT_MODE	PAYMENT_TIMESTAMP
501	PayTM	15-NOV-22 11.12.33.000000 AM
502	COD	11-NOV-22 09.06.30.000000 AM
503	CARD	22-NOV-22 01.10.22.000000 AM
504	COD	02-NOV-21 05.12.03.000000 AM
506	GPay	27-OCT-21 01.13.13.000000 AM
507	CARD	09-NOV-22 09.08.48.000000 AM
508	COD	28-OCT-21 10.07.53.000000 AM
509	PhonePe	05-NOV-22 07.17.37.000000 AM
510	Mobkwik	16-NOV-22 09.19.22.000000 AM


```
CREATE TABLE delivery_details(
delivery_id number(8) primary key,
delivery_address varchar(50) NOT NULL,
delivery_status varchar(30) NOT NULL
);
```

```
INSERT INTO delivery_details VALUES (401,'1st Rammurthy
nagar,Bangalore','Delivered');
INSERT INTO delivery_details VALUES (402,'Examiner
Road,Mumbai','Delivered');
INSERT INTO delivery_details VALUES (403,'1723,Opp. Clock
Tower,Ludhiana','Preparing');
INSERT INTO delivery_details VALUES (404,'H-138, bakkam
Road,Chennai','Pickedup');
INSERT INTO delivery_details VALUES (405,'854,Guru Nanak Nagar,
Amritsar','Delivered');
INSERT INTO delivery_details VALUES (406,'Kaziranga,
Meghalaya','preparing');
INSERT INTO delivery_details VALUES (407,'A/3, Alpha
City,Mumbai','Preparing');
INSERT INTO delivery_details VALUES (408,'134/135
Nagarathpet,Banglore,Karnataka','Delivered');
INSERT INTO delivery_details VALUES (409,'754 Arjan Dev
Nagar,Amritsar','Picked-up');
INSERT INTO delivery_details VALUES (410,'Main City
centre,Gurgaon,Haryana','Pickedup');
```

```
109 CREATE TABLE delivery_details(
110     delivery_id number(8) primary key,
111     delivery_address varchar(50) NOT NULL,
112     delivery_status varchar(30) NOT NULL
113 );
...
```

DELIVERY_ID	DELIVERY_ADDRESS	DELIVERY_STATUS
401	1st Rammurthy nagar,Bangalore	Delivered
402	Examiner Road,Mumbai	Delivered
403	1723,Opp. Clock Tower,Ludhiana	Preparing
404	H-138, bakkam Road,Chennai	Pickedup
405	854,Guru Nanak Nagar, Amritsar	Delivered
406	Kaziranga, Meghalaya	preparing
407	A/3, Alpha City,Mumbai	Preparing
408	134/135 Nagarathpet,Banglore,Karnataka	Delivered
409	754 Arjan Dev Nagar,Amritsar	Picked-up
410	Main City centre,Gurgaon,Haryana	Pickedup

```
CREATE TABLE Rating(  
ratings number(8) NOT NULL,  
customer_id number(8) references customer(customer_id),  
restaurant_id number(8) references restaurant(restaurant_id)  
);
```

```
INSERT INTO Rating VALUES (3,01,111);  
INSERT INTO Rating VALUES (4,02,114);  
INSERT INTO Rating VALUES (2,03,117);  
INSERT INTO Rating VALUES (4,04,120);  
INSERT INTO Rating VALUES (3,06,115);  
INSERT INTO Rating VALUES (4,08,113);  
INSERT INTO Rating VALUES (3,09,112);  
INSERT INTO Rating VALUES (4,01,119);  
INSERT INTO Rating VALUES (3,09,116);
```

```
select * from Rating
```

```
121 CREATE TABLE Rating(  
122 ratings number(8) NOT NULL,  
123 customer_id number(8) references customer(customer_id),  
124 restaurant_id number(8) references restaurant(restaurant_id)  
125 );  
126
```

RATINGS	CUSTOMER_ID	RESTAURANT_ID
3	1	111
4	2	114
2	3	117
4	4	120
3	6	115
4	8	113
3	9	112
4	1	119
3	9	116

```

CREATE TABLE Order_details(
Order_id number(8) primary key,
Order_time timestamp,
Order_amount number(8) NOT NULL,
Order_status varchar(20) NOT NULL,
customer_id number(8) references customer(customer_id),
delivery_id number(8) references delivery_details(delivery_id),
payment_id number(8) references Payment_details(payment_id),
restaurant_id number(8) references restaurant(restaurant_id)
);

```

```

INSERT INTO Order_details VALUES (601,'11-FEB-2022
9:06:30','240','Preparing',01,401,501,111);
INSERT INTO Order_details VALUES (603,'02-APR-2021 5:12:03','345',
'delivered',03,409,503,117);
INSERT INTO Order_details VALUES (604,'27-JUL-2021 01:13:13','400',
'preparing', 04,404,504,112);
INSERT INTO Order_details VALUES (605,'09-MAY-2022 09:08:48','250',
'delivered',04,404,509,119);
INSERT INTO Order_details VALUES (606,'28-DEC-2021 10:07:53','230',
'preparing', 06,406,506,114);
INSERT INTO Order_details VALUES (607,'05-MAR-2022 7:17:37','300',
'delivered',08 ,408 ,507, 113);
INSERT INTO Order_details VALUES (608,'16-JAN-2022 9:19:22','50',
'preparing',09,410,508,120);

```

Select * from Orders

137	CREATE TABLE Order_details(
138	Order_id number(8) primary key,	
139	Order_time timestamp,	
140	Order_amount number(8) NOT NULL,	
141	Order_status varchar(20) NOT NULL,	
142	customer_id number(8) references customer(customer_id),	
143	delivery_id number(8) references delivery_details(delivery_id),	
144	payment_id number(8) references Payment_details(payment_id),	
145	restaurant_id number(8) references restaurant(restaurant_id)	
146);	
147		

ORDER_ID	ORDER_TIME	ORDER_AMOUNT	ORDER_STATUS	CUSTOMER_ID	DELIVERY_ID	PAYMENT_ID	RESTAURANT_ID
601	11-FEB-22 09.06.30.000000 AM	240	Preparing	1	401	501	111
603	02-APR-21 05.12.03.000000 AM	345	delivered	3	409	503	117
604	27-JUL-21 01.13.13.000000 AM	400	preparing	4	404	504	112
605	09-MAY-22 09.08.48.000000 AM	250	delivered	4	404	509	119
606	28-DEC-21 10.07.53.000000 AM	230	preparing	6	406	506	114
607	05-MAR-22 07.17.37.000000 AM	300	delivered	8	408	507	113
608	16-JAN-22 09.19.22.000000 AM	50	preparing	9	410	508	120

```
CREATE TABLE Orders(  
  quantity number(8) NOT NULL,  
  Order_id number(8) references Order_details(Order_id),  
  item_code number(8) references Menu_items(item_code)  
);
```

```
INSERT INTO Orders VALUES (2,601,307);
```

```
INSERT INTO Orders VALUES (3,603,305);
```

```
INSERT INTO Orders VALUES(2,604,310);
```

```
INSERT INTO Orders VALUES (1,605,313);
```

```
INSERT INTO Orders VALUES(1,606,301);
```

```
INSERT INTO Orders VALUES (3,607,306);
```

```
INSERT INTO Orders VALUES(2,608,321);
```

```
156 CREATE TABLE Orders(  
157   quantity number(8) NOT NULL,  
158   Order_id number(8) references Order_details(Order_id),  
159   item_code number(8) references Menu_items(item_code)  
160 );  
161
```

QUANTITY	ORDER_ID	ITEM_CODE
2	601	307
3	603	305
2	604	310
1	605	313
1	606	301
3	607	306
2	608	321

PL-SQL QUERIES

- Retrieve data for restaurant id 117

```
1 select * from restaurant where restaurant_id = '117';
```

ADMIN_ID	RESTAURANT_ID	RESTAURANT_NAME	RESTAURANT_ADDRESS	RESTAURANT_PASSWORD	RESTAURANT_PHONENO
1	117	Taj Hotel	154 Khan Market, India Gate, New Delhi. Delhi	tajr@117	1166566162

[Download CSV](#)

- Retrieve the item name, price, quantity, order status and total amount of order when menu item matches the order details

```
1 select item_name,price,quantity,order_status,order_amount
2 from Menu_items m,Orders o,Order_details od
3 where m.item_code=o.item_code AND o.order_id=od.order_id
```

ITEM_NAME	PRICE	QUANTITY	ORDER_STATUS	ORDER_AMOUNT
White Pasta	230	1	preparing	230
uttampam	115	3	delivered	345
idli-sambhar	120	3	del ivered	300
aloo-cheese paratha	120	2	Preparing	240
Dry manchrian	200	2	preparing	400
lasaniya bataka	250	1	delivered	250
muskabun	25	2	preparing	50

[Download CSV](#)
7 rows selected.

- Alter table

```
1 alter table customer modify customer_address varchar(60) |
```

Table altered.

➤ Order by

```
1 select * from Menu_items order by price
```

ITEM_CODE	ITEM_NAME	PRICE	CATEGORY_ID
321	muskabun	25	206
319	burger	55	206
324	kewi juice	90	207
325	French toast	100	210
320	french fries	100	206
309	chole kulche	100	202
305	uttanpam	115	201
317	chocolate brownie	115	208
307	aloo-cheese paratha	120	202
306	idli-sambhar	120	201
318	pancakes	120	208
323	hazlenut coffee	135	207
311	CHINESE BHEL	150	204
322	peach mojito	180	207
326	Pancakes	180	209
310	Dry manchurian	200	204
302	Arabita Pasta	200	203
312	Fried rice	210	204
316	waffle	220	208
315	sev tameta nu shaak	220	205
301	White Pasta	230	203
313	lasaniya bataka	250	205
308	Paneer pasanda	250	202
314	rigan no olo	300	205
304	gotala dosa	300	201
327	Steaks	335	210
303	Magherita pizza	400	203

Download CSV

17 rows selected.

➤ Count and like

```
1 SELECT COUNT(customer_firstname) from customer where customer_firstname like 'A%' or customer_firstname like 'a%';
2 select customer_firstname from customer;
```

COUNT(CUSTOMER_FIRSTNAME)
2

[Download CSV](#)

CUSTOMER_FIRSTNAME
Harsh
Jainam
Aman
Heer
Akanksha
Karan
Divya
Celia
Johnson
Dhara

[Download CSV](#)
10 rows selected.

➤ Group by and having

```
1 select Order_id,max(Order_amount) from Order_details group by Order_id having max(Order_amount)>300;
```

ORDER_ID	MAX(ORDER_AMOUNT)
603	345
604	400

[Download CSV](#)
2 rows selected.

➤ Trigger

```
109
170 CREATE OR REPLACE TRIGGER display_price_changes
171 BEFORE DELETE OR INSERT OR UPDATE ON Menu_items
172 FOR EACH ROW
173 WHEN (NEW.Item_code > 0)
174 DECLARE
175     price_diff number;
176 BEGIN
177     price_diff := :NEW.price - :OLD.price;
178     dbms_output.put_line('Old price: ' || :OLD.price);
179     dbms_output.put_line('New price: ' || :NEW.price);
180     dbms_output.put_line('Price difference: ' || price_diff);
181 END;
182 /
183
184
185
```

Trigger created.

➤ To display details of customer

```

1 declare
2   C_Id customer.customer_id%type;
3   C_Fname customer.customer_firstname%type;
4   C_Lname customer.customer_lastname%type;
5   C_Pass customer.customer_password%type;
6   C_Phone customer.customer_phoneno%type;
7   C_Add customer.customer_address%type;
8   C_Email customer.customer_email%type;
9   Cursor x IS select customer_id, customer_firstname, customer_lastname, customer_password, customer_phoneno, customer_address, customer_email from custo
10 begin
11   open x;
12   loop
13     fetch x into C_Id, C_Fname, C_Lname, C_Pass, C_Phone, C_Add, C_Email;
14     exit when x%NOTFOUND;
15     dbms_output.put_line(C_Id||' '||C_Fname||' '||C_Lname||' '||C_Pass||' '||C_Phone||' '||C_Add||' '||C_Email);
16   end loop;
17   close x;
18 end;
19

```

Statement processed.

101 Harsh Mehta harsh@123 7435068222 1st Cross,Rammurthy nagar,Bangalore harsh19@gmail.com
 102 Jainam Shah Jainu@123 9924567892 117, Examiner Road, Fort,Mumbai, Maharashtra Jainam39@gmail.com
 103 Aman Pandya Aman@123 7834578923 L 69 Sector 11,Delhi,Uttar Pradesh-201301 aman@gmail.com
 104 Heer Madia Her@123 8902345789 Bee H-138, Kodambakkam Road,Chennai, Tamil Nadu heer1723@gmail.com
 105 Akanksha Yadav Akayad@123 9934654001 295 AjRoad:10, West Hydrebad, Andhra Pradesh akuu@gmail.com
 106 Karan Punjabi karpun@123 9934688001 Nirmal House Opp Jain Mandir ,Jalandhar,Punjab karan12@gmail.com
 107 Divya Mulchandann divmul@123 9874688001 A/3, Tejpal Indl Estate,Andheri (west),Maharashtra div3421@gmail.com
 108 Celia Anthony Celia@123 7834654881 134,14,Nagarathpet Main Road,Banglore,Karnataka Celia44@gmail.com
 109 Johnson Thomas Jthomas@123 9931888912 A/108 Paldi,Ahmedabad,Gujrat Jthomas550@gmail.com
 110 Dhara Mohan BhatrDhara@1231 9875678001 66 Sector 24 Mujessar,Ram Colony,Delhi,Haryana dbhatt45@gmail.com

➤ To display details of customer with order amount equal to 300

SQL Worksheet Clear

```

1 declare
2   C_Id customer.customer_id%type;
3   C_Fname customer.customer_firstname%type;
4   C_Lname customer.customer_lastname%type;
5   C_Pass customer.customer_password%type;
6   C_Phone customer.customer_phoneno%type;
7   C_Add customer.customer_address%type;
8   C_Email customer.customer_email%type;
9   O_Amt Order_details.Order_amount%type;
10  Cursor x IS select C.customer_id, C.customer_firstname, C.customer_lastname, C.customer_password, C.customer_phoneno, C.customer_address, C.customer_email, O.Order_amount
11  from customer C, Order_details O where O.Order_amount=300;
12 begin
13   open x;
14   loop
15     fetch x into C_Id, C_Fname, C_Lname, C_Pass, C_Phone, C_Add, C_Email, O_Amt;
16     exit when x%NOTFOUND;
17     dbms_output.put_line(C_Id||' '||C_Fname||' '||C_Lname||' '||C_Pass||' '||C_Phone||' '||C_Add||' '||C_Email||' '||O_Amt);
18   end loop;
19   close x;
20 end;
21

```

Statement processed.

101 Harsh Mehta harsh@123 7435068222 1st Cross,Rammurthy nagar,Bangalore harsh19@gmail.com 300
 102 Jainam Shah Jainu@123 9924567892 117, Examiner Road, Fort,Mumbai, Maharashtra Jainam39@gmail.com 300
 103 Aman Pandya Aman@123 7834578923 L 69 Sector 11,Delhi,Uttar Pradesh-201301 aman@gmail.com 300
 104 Heer Madia Her@123 8902345789 Bee H-138, Kodambakkam Road,Chennai, Tamil Nadu heer1723@gmail.com 300
 105 Akanksha Yadav Akayad@123 9934654001 295 AjRoad:10, West Hydrebad, Andhra Pradesh akuu@gmail.com 300
 106 Karan Punjabi karpun@123 9934688001 Nirmal House Opp Jain Mandir ,Jalandhar,Punjab karan12@gmail.com 300
 107 Divya Mulchandann divmul@123 9874688001 A/3, Tejpal Indl Estate,Andheri (west),Maharashtra div3421@gmail.com 300
 108 Celia Anthony Celia@123 7834654881 134,14,Nagarathpet Main Road,Banglore,Karnataka Celia44@gmail.com 300
 109 Johnson Thomas Jthomas@123 9931888912 A/108 Paldi,Ahmedabad,Gujrat Jthomas550@gmail.com 300
 110 Dhara Mohan BhatrDhara@1231 9875678001 66 Sector 24 Mujessar,Ram Colony,Delhi,Haryana dbhatt45@gmail.com 300

- To display details of customer with rating more than 3

```
184 declare
185   C_Id customer.customer_id%type;
186   C_Fname customer.customer_firstname%type;
187   C_Lname customer.customer_lastname%type;
188   C_Pass customer.customer_password%type;
189   C_Phone customer.customer_phoneno%type;
190   C_Add customer.customer_address%type;
191   C_Email customer.customer_email%type;
192   R_Rat Rating.ratings%type;
193   cursor x is select C.customer_id, C.customer_firstname, C.customer_lastname,
194     C.customer_password, C.customer_phoneno, C.customer_address, C.customer_email, R.ratings from customer C, Rating R where R.ratings > 3;
195   begin open x;
196   loop fetch x into C_Id, C_Fname, C_Lname, C_Pass, C_Phone, C_Add, C_Email, R_Rat;
197   exit when x%NOTFOUND;
198   dbms_output.put_line(C_Id||' '||C_Fname||' '||C_Lname||' '||C_Pass||' '||C_Phone||' '||C_Add||' '||C_Email||' '||R_Rat);
199   end loop;
200   close x;
201   end;
```

Statement processed.

1	Harsh Mehta harsh#212	7435060222	1st Cross, Rammurthy nagar, Bangalore	mehta19@gmail.com	4
2	Jainam Shah Jainu\$820	9924567892	117, Examiner Road, Fort, Mumbai, Maharashtra	jainam3@gmail.com	1
4	James Heckins Dodge@985	8902345789	Bee H-138, Kodambakkam Road, Chennai, Karnataka	james23@gmail.com	4
6	Karanpreet Singh rocket@123	7734688001	Opp. Satsang Bhawan, Beas, Punjab	kanan12@gmail.com	4
7	Divyanka Kapoor Cat@123	9867445890	A/3, Alpha City, Mumbai, Maharashtra	div3421@gmail.com	4
8	Rustum Pavri Rustom@993	8839950001	134, 14, Nagarathpet Main Road, Bangalore, Karnataka	pavri44@gmail.com	4
9	Lovish Singla love@123	9891444976	754 Arjan Dev Nagar, Amritsar, Punjab	lovish50@gmail.com	4
10	Jogesh Das Jogesh@231	8870000010	854 Gali No.1 Mujessar, Ram Colony, Haryana	dasjogesh5@gmail.com	4
3	Ishaan Dawra bmw@765	9874578428	1723, Opp. Clock Tower Ludhiana, Punjab	ishaan@gmail.com	4
5	Muskanpreet Kaur lovi@123	9934654319	854, Guru Nanak Nagar Amritsar, Punjab	muskan@gmail.com	4

- Exception handling

```
1 DECLARE
2   temp varchar(20);
3
4 BEGIN
5   SELECT payment_timestamp into temp from payment_details where payment_mode='PayTM';
6
7 exception
8   WHEN no_data_found THEN
9     dbms_output.put_line('ERROR');
10    dbms_output.put_line('there is no payment_mode as PayTM in Payment_details table');
11 end;
```

Statement processed.

ERROR

there is no payment_mode as PayTM in Payment_details table