A Practical Activity Report Submitted for Database Management System (UCS310)

Group Number – 2 Sub–Group – 2CO23

SUBMITTED BY:

Vikas Kumar Garg 102203426

SUBMITTED TO: Ms. Isha Pathania



COMPUTER SCIENCE AND ENGINEERING DEPARTMENT (CSED)
THAPAR INSTITUTE OF ENGINEERING AND TECHNOLOGY
PATIALA, PUNJAB, INDIA - 147001
JAN - MAY 2024

TABLE OF CONTENTS

- i. Introduction and Project Overview
- ii. ER Diagram
- iii. ER to table
- iv. Normalization
- v. SQL/PL-SQL Code
- vi. PL-SQL Queries
- vii. Front End Website

INTRODUCTION AND PROJECT OVERVIEW

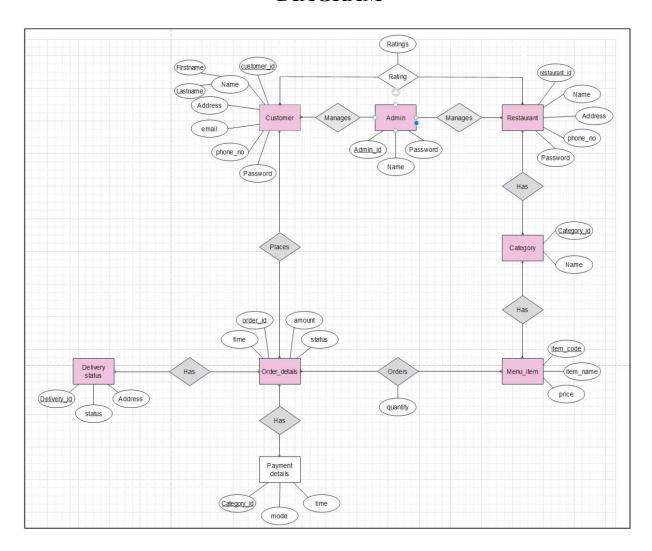
The purpose of this project is to provide an online food delivery system. Online Food ordering system is a process in which one can order various foods and beverages from some local restaurant and hotels through the use of internet, just by sitting at home or any place. And the order is delivered to 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 markets, 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.

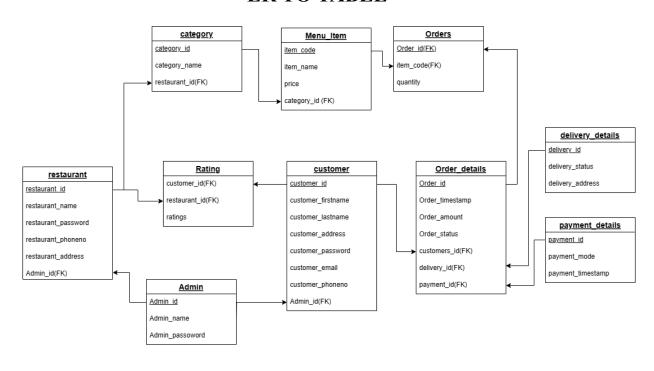
Therefore, this system enhances the speed of getting food in person's plate and quality and manner of taking the order from the customer. It provides a better communication platform. The user's details are stored using the electronic media. The online food ordering system provides the menu online and 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.

ENTITY-RELATIONSHIP 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: -

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

- o 1NF as it does not contain any multivalued attribute.
- o 2NF as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- o **3NF** as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- o **BCN**F 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:-

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

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

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

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

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

The above table is in:-

- o 1NF as it does not contain any multivalued attribute.
- o 2NF as it is in 1NF and every non-primary key attribute is fully dependent on the primary key
- o 13NF as it is in 2NF and every non-key attribute is non-transitively dependent on the primary key.
- o **BCNF** as it is in 3NF and every determinant is a primary key.

SQL/PLSQL OUTPUT

```
1 V 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, 'Admin1', 'Admin@1');
select * from Admin;
```

ADMIN_ID	ADMIN_NAME	ADMIN_PASSWORD
1	Admin1	Admin@1

```
CREATE TABLE customer(

customer_id number(8) primary key,

customer_firstname varchar(38) NOT NULL,

customer_password varchar(16) NOT NULL,

customer_password varchar(16) NOT NULL,

customer_password varchar(16) NOT NULL,

customer_password varchar(18) NOT NULL,

customer_password varchar(18) NOT NULL,

customer_email varchar(28) NOT NULL,

downard_address varchar(58) NOT NULL,

customer_email varchar(28) 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$22',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', 9902345789, 'Bee H-138, Kodambakkam Road,Chennai, Karnataka', 'james23@gmail.com',01);

INSERT INTO customer VALUES (06, 'Karanpreet', 'Kaur', 'Iovig123', 99934654319, '9993465439, 'Kayan', 'Nayan', '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', 9887445890, 'A/3, Alpha City,Mumbai,Maharashtra', 'div3421@gmail.com',01);

INSERT INTO customer VALUES (08, 'Rustom', 'Pavri', 'Rustom@993', 8839950801, '134, 14, Nagarathpet Main Road,Banglore,Karnataka', 'pavri4@gmail.com',01);

INSERT INTO customer VALUES (09, 'Lovish', 'Singla', 'love@123', 9891444976, '754 Arjan Dev Nagar,Ammitsar,Punjab', 'lovish50@gmail.com',01);

INSERT INTO customer VALUES (09, 'Lovish', 'Sagosh', 'Das', 'Jogesh@231', 8870880010, '854 Gail No.1 Mujessar,Ram Colony,Haryana', 'dasjogesh5@gmail.com',01);

select * from customer;
```

CUSTOMER_ID	CUSTOMER_FIRSTNAME	CUSTOMER_LASTNAME	CUSTOMER_PASSWORD	CUSTOMER_PHONENO	CUSTOMER_ADDRESS	CUSTOMER_EMAIL	ADMIN_ID
1	Harsh	Mehta	harsh#212	7435068222	1st Cross,Rammurthy nagar,Bangalore	mehta19@gmail.com	1
2	Jainam	Shah	Jainu\$820	9924567892	117, Examiner Road, Fort,Mumbai, Maharashtra	jainam33@gmail.com1	1
3	Ishaan	Dawra	bmw@765	9874578428	1723,Opp. Clock Tower Ludhiana,Punjab	ishaan@gmail.com	1
4	James	Heckins	Dodge@985	8902345789	Bee H-138, Kodambakkam Road,Chennai, Karnataka	james23@gmail.com	1
5	Muskanpreet	Kaur	lovi@123	9934654319	854,Guru Nanak Nagar Amritsar, Punjab	muskan@gmail.com	1
6	Karanpreet	Singh	rocket@123	7734688001	Opp. Satsang Bhawan,Beas,Punjab	karan12@gmail.com	1
7	Divyanka	Kapoor	Cat@123	9867445890	A/3, Alpha City,Mumbai,Maharashtra	div3421@gmail.com	1
8	Rustom	Pavri	Rustom@993	8839950081	134,14,Nagarathpet Main Road,Banglore,Karnataka	pavri44@gmail.com	1
9	Lovish	Singla	love@123	9891444976	754 Arjan Dev Nagar,Amritsar,Punjab	lovish50@gmail.com	1
10	Jogesh	Das	Jogesh@231	8870080010	854 Gali No.1 Mujessar,Ram Colony,Haryana	dasjogesh5@gmail.com	1

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	F30,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@114	9458262800
1	115	Boombox	Sector-17 Chandigarh,Punjab	Boom#115	9773818001
1	116	Sowento	Level-8, Connaught Place, New Delhi, Delhi	Sow@116	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

```
1 V CREATE TABLE category(
 category_id number(8) primary key,
 3
    category_name varchar(15) NOT NULL,
 4
    restaurant_id number(8) references restaurant(restaurant_id)
 5
    );
    INSERT INTO category VALUES (201, 'SOUTH-INDIAN', '112');
    INSERT INTO category VALUES (202, 'CHINESE', '111');
    INSERT INTO category VALUES (203, 'ALL', '115');
10 INSERT INTO category VALUES (204, 'INDONESIAN', '113');
11
    INSERT INTO category VALUES (205, 'KATHIAWADI', '114');
12 INSERT INTO category VALUES (206, 'PUNJABI', '118');
13 INSERT INTO category VALUES (207, 'RAJASTHANI', '119');
14 INSERT INTO category VALUES (208, 'DESSERTS', '120');
15 INSERT INTO category VALUES (209, 'NORTH-INDIAN ', '116');
16 INSERT INTO category VALUES (210, 'CONTINENTAL', '117');
17
18 select * from category;
```

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

```
Tem_code number(8) primary key,

item_name varchar(20) NOT NULL,

Price number(8) 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, 'Tandoron' pizza',400,203);

INSERT INTO Menu_items VALUES(304, 'Masala dosa',300,201);

INSERT INTO Menu_items VALUES(304, 'Masala dosa',300,201);

INSERT INTO Menu_items VALUES(305, 'utl-tampam',115,201);

INSERT INTO Menu_items VALUES(306, 'idl-vad-sambhar',120,206);

INSERT INTO Menu_items VALUES(307, 'Amritsari Kulcha',120,206);

INSERT INTO Menu_items VALUES(307, 'Amritsari Kulcha',120,206);

INSERT INTO Menu_items VALUES(307, 'Paneer parantha', 250,206);

INSERT INTO Menu_items VALUES(310, 'Dey manchrian',200,202);

INSERT INTO Menu_items VALUES(311, 'CHINESE BHEL',150,202);

INSERT INTO Menu_items VALUES(313, 'lasandya bataka',250,210);

INSERT INTO Menu_items VALUES(313, 'lasandya bataka',250,210);

INSERT INTO Menu_items VALUES(315, 'wateria run shaak',220,205);

INSERT INTO Menu_items VALUES(315, 'sev tameta nu shaak',220,205);

INSERT INTO Menu_items VALUES(313, 'pancakes',120,208);

INSERT INTO Menu_items VALUES(313, 'pancakes',120,208);

INSERT INTO Menu_items VALUES(313, 'pancakes',120,208);

INSERT INTO Menu_items VALUES(321, 'muskabun',25,209);

INSERT INTO Menu_items VALUES(321, 'muskabun',25,209);

INSERT INTO Menu_items VALUES(322, 'peach mojito',180,207);

INSERT INTO Menu_items VALUES(324, 'kewi juice',90,207);

INSERT INTO Menu_it
```

ITEM_CODE	ITEM_NAME	PRICE	CATEGORY_ID
301	White Pasta	230	203
302	Alfredo Pasta	200	203
303	Tandoori pizza	400	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

PAYMENT_ID	PAYMENT_MODE	PAYMENT_TIMESTAMP
501	COD	27-FEB-24 10.07.53.000000 AM
502	GPay	28-FEB-24 01.13.13.000000 AM
503	PayTM	11-MAR-24 11.12.33.000000 AM
504	COD	15-MAR-24 09.06.30.000000 AM
505	CARD	17-MAR-24 01.10.22.000000 AM
506	COD	20-MAR-24 05.12.03.000000 AM
507	CARD	29-MAR-24 09.08.48.000000 AM
508	PhonePe	30-MAR-24 07.17.37.000000 AM
509	Mobkwik	01-APR-24 09.19.22.000000 AM

```
1 v CREATE TABLE delivery_details(
2 delivery_id number(8) primary key,
     delivery_address varchar(50) NOT NULL,
4 delivery_status varchar(30) NOT NULL
6
7 INSERT INTO delivery_details VALUES (401,'1st Rammurthy nagar,Bangalore','Delivered');
8 INSERT INTO delivery_details VALUES (402, 'Examiner Road, Mumbai', 'Delivered');
    INSERT INTO delivery_details VALUES (403,'1723,Opp. Clock Tower,Ludhiana','Preparing');
10 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');
13 INSERT INTO delivery_details VALUES (407, 'A/3, Alpha City, Mumbai', 'Preparing');
     INSERT INTO delivery_details VALUES (408, '134/135 Nagarathpet, Banglore, Karnataka', 'Delivered');
15 INSERT INTO delivery_details VALUES (409, '754 Arjan Dev Nagar, Amritsar', 'Picked-up');
16 INSERT INTO delivery_details VALUES (410, 'Main City centre, Gurgaon, Haryana', 'Pickedup');
17
18 select * from delivery_details;
```

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

```
1 v CREATE TABLE Rating(
2 ratings number(8) NOT NULL,
3 customer_id number(8) references customer(customer_id),
4 restaurant_id number(8) references restaurant(restaurant_id)
5 );
6
7 INSERT INTO Rating VALUES (3,01,111);
8 INSERT INTO Rating VALUES (4,02,114);
9 INSERT INTO Rating VALUES (2,03,117);
10 INSERT INTO Rating VALUES (4,04,120);
11 INSERT INTO Rating VALUES (3,06,115);
12 INSERT INTO Rating VALUES (3,06,115);
13 INSERT INTO Rating VALUES (3,09,112);
14 INSERT INTO Rating VALUES (4,01,119);
15 INSERT INTO Rating VALUES (3,09,116);
16
17 select * from Rating;
```

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_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-2024 9:06:30', '240', 'preparing', 01,401,501,111);

INSERT INTO Order_details VALUES (602, '28-FEB-2024 10:07:53', '230', 'preparing', 06,406,506,114);

INSERT INTO Order_details VALUES (603, '09-MAR-2024 09:08:48', '250', 'delivered',08,408,509,119);

INSERT INTO Order_details VALUES (604, '05-MAR-2024 7:17:37', '300', 'delivered',08,408,507, 113);

INSERT INTO Order_details VALUES (605, '02-APR-2024 5:12:03', '345', 'delivered',08,409,503,117);

INSERT INTO Order_details VALUES (606, '27-APR-2024 0:113:13', '400', 'preparing', 04,404,509,112);

INSERT INTO Order_details VALUES (607, '16-APR-2024 9:19:22', '50', 'preparing', 09,410,508,120);

Select * from Order_details;
```

ORDER_ID	ORDER_TIME	ORDER_AMOUNT	ORDER_STATUS	CUSTOMER_ID	DELIVERY_ID	PAYMENT_ID	RESTAURANT_ID
601	11-FEB-24 09.06.30.000000 AM	240	preparing	1	401	501	111
602	28-FEB-24 10.07.53.000000 AM	230	preparing	6	406	506	114
603	09-MAR-24 09.08.48.000000 AM	250	delivered	4	404	509	119
604	05-MAR-24 07.17.37.000000 AM	300	delivered	8	408	507	113
605	02-APR-24 05.12.03.000000 AM	345	delivered	3	409	503	117
606	27-APR-24 01.13.13.000000 AM	400	preparing	4	404	504	112
607	16-APR-24 09.19.22.000000 AM	50	preparing	9	410	508	120

```
1 , CREATE TABLE Orders(
 2 quantity number(8) NOT NULL,
    Order_id number(8) references Order_details(Order_id),
 4
   item_code number(8) references Menu_items(item_code)
 5
 6
    INSERT INTO Orders VALUES (2,601,307);
 7
    INSERT INTO Orders VALUES (3,603,305);
 8
   INSERT INTO Orders VALUES(2,604,310);
9
    INSERT INTO Orders VALUES (1,605,313);
10 INSERT INTO Orders VALUES(1,606,301);
11 INSERT INTO Orders VALUES (3,607,306);
12 INSERT INTO Orders VALUES(2,608,321);
13 select * from Orders;
```

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

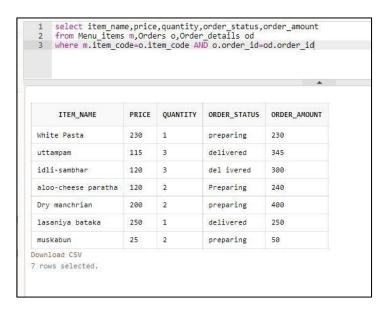
QUANTITY	ORDER_ID	ITEM_CODE
2	601	307
3	603	305
2	604	310
1	605	313
1	606	301
3	607	306

PL-SQL QUERIES

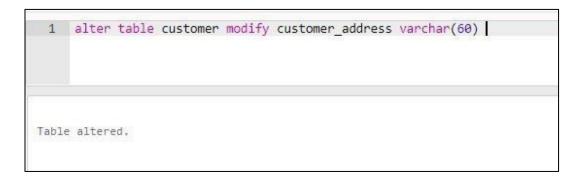
• Retrieve details of restaurant whose id is 117



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



• Modify Table

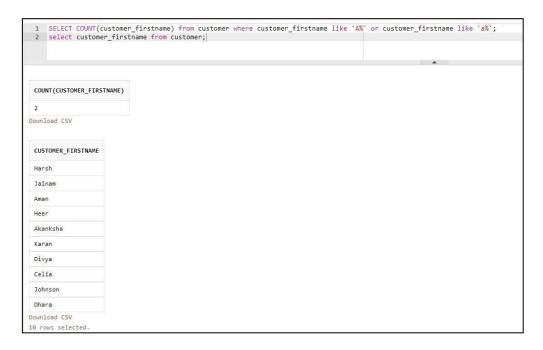


• Order by

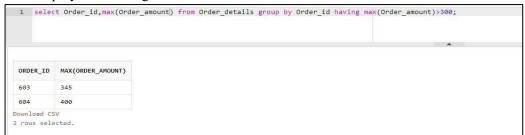
1 select * from menu_items order by price;

ITEM_CODE	ITEM_NAME	PRICE	CATEGORY_ID
321	muskabun	25	209
319	burger	55	203
324	kewi juice	90	207
325	French toast	100	209
320	french fries	100	203
309	Bhature Chole	100	209
305	uttampam	115	201
317	chocolate brownie	115	208
307	Amritsari Kulcha	120	206
306	idli-vada-sambhar	120	201
318	pancakes	120	208
323	hazlenut coffee	135	207
311	CHINESE BHEL	150	202
322	peach mojito	180	207
326	Pancakes	180	208
310	Dry manchrian	200	202
302	Alfredo Pasta	200	203
312	Fried rice	210	202
316	waffle	220	208
315	sev tameta nu shaak	220	205
301	White Pasta	230	203
313	lasaniya bataka	250	210

• Count and like



• Group by and Having



Trigger

```
1 _{\rm v} CREATE OR REPLACE TRIGGER display_price_changes
    BEFORE DELETE OR INSERT ON menu_items
3 FOR EACH ROW
4 WHEN (new.item_code > 0)
5 DECLARE
6
        price_diff NUMBER;
7 v BEGIN
8
       IF DELETING THEN
9
            price_diff := :old.price - :new.price;
10
            DBMS_OUTPUT.PUT_LINE('Old Price: ' || :old.price);
           DBMS_OUTPUT.PUT_LINE('Price Decreased by: ' || price_diff);
11
12 <sub>v</sub>
        ELSIF INSERTING THEN
13
            price_diff := :new.price - :old.price;
14
            DBMS_OUTPUT.PUT_LINE('New Price: ' || :new.price);
15
            DBMS_OUTPUT.PUT_LINE('Price Increased by: ' || price_diff);
16
        END IF;
17
    END;
18
19
20
Trigger created.
```

To display details of customer

To display details of customer with order amount equal to 300

```
SQL Worksheet

| declare | Classes |
```

• To display details of customer with rating more than 3

```
v_customer_id customer.customer_id%TYPE;
 2
         v_firstname customer.customer_firstname%TYPE;
        v_lastname customer.customer_lastname%TYPE;
v_password customer.customer_password%TYPE;
v_phoneno customer.customer_phoneno%TYPE;
v_address customer.customer_address%TYPE;
v_email customer.customer_email%TYPE;
4
 5
 6
        8
9
10
11 ,
        CURSOR customer_cursor (rating_threshold NUMBER) IS
12
            SELECT c.customer_id,
13
                   c.customer_firstname,
14
                   c.customer_lastname,
15
                   c.customer_password,
16
                   c.customer_phoneno,
17
                   c.customer_address,
18
                   c.customer_email,
19
                   c.Admin_id
20
           FROM customer c
21
                 JOIN Rating r ON c.customer_id = r.customer_id
22
            WHERE r.ratings > rating_threshold;
23
24
        customer_record customer_cursor%ROWTYPE;
25
26 BEGIN
        OPEN customer_cursor(3);
27
28
29
        FETCH customer_cursor INTO customer_record;
30
31 ,
        WHILE customer_cursor%FOUND LOOP
            v_customer_id := customer_record.customer_id;
32
            v_firstname := customer_record.customer_firstname;
33
            v_lastname := customer_record.customer_lastname;
35
            v_password := customer_record.customer_password;
36
            v_phoneno := customer_record.customer_phoneno;
37
            v_address := customer_record.customer_address;
38
            v_email := customer_record.customer_email;
39
            v_admin_id := customer_record.Admin_id;
40
            DBMS_OUTPUT.PUT_LINE('Customer ID: ' || v_customer_id);
41
            DBMS_OUTPUT.PUT_LINE('First Name: ' || v_firstname);
42
43
             DBMS_OUTPUT.PUT_LINE('Last Name: ' || v_lastname);
            DBMS_OUTPUT.PUT_LINE('Password: ' | v_password);
44
45
             DBMS_OUTPUT.PUT_LINE('Phone Number: ' || v_phoneno);
             DBMS_OUTPUT.PUT_LINE('Address: ' || v_address);
46
            DBMS_OUTPUT.PUT_LINE('Email: ' || v_email);
47
             DBMS_OUTPUT.PUT_LINE('Admin ID: ' | | v_admin_id);
48
49
            DBMS_OUTPUT.PUT_LINE('----');
50
51
            FETCH customer_cursor INTO customer_record;
52
        END LOOP;
53
         CLOSE customer_cursor;
54
55 END;
56
```

```
Statement processed.
Customer ID: 1
First Name: Harsh
Last Name: Mehta
Password: harsh#212
Phone Number: 7435068222
Address: 1st Cross, Rammurthy nagar, Bangalore
Email: mehta19@gmail.com
Admin ID: 1
-----
Customer ID: 2
First Name: Jainam
Last Name: Shah
Password: Jainu$820
Phone Number: 9924567892
Address: 117, Examiner Road, Fort, Mumbai, Maharashtra
Email: jainam33@gmail.com1
Admin ID: 1
Customer ID: 4
First Name: James
Last Name: Heckins
Password: Dodge@985
Phone Number: 8902345789
Address: Bee H-138, Kodambakkam Road, Chennai, Karnataka
Email: james23@gmail.com
Admin ID: 1
-----
               -----
Customer ID: 8
First Name: Rustom
Last Name: Pavri
Password: Rustom@993
Phone Number: 8839950081
Address: 134,14, Nagarathpet Main Road, Banglore, Karnataka
Email: pavri44@gmail.com
Admin ID: 1
```

Exception Handling

```
DECLARE

temp payment_details.payment_timestamp%TYPE;

BEGIN

SELECT payment_timestamp INTO temp FROM payment_details WHERE payment_mode = 'PayTM';

dbms_output.put_line('Timestamp for PayTM payments: ' || TO_CHAR(temp, 'DD-MON-YYYY HH24:MI:SS'));

EXCEPTION

WHEN no_data_found THEN

dbms_output.put_line('No data found for payment_mode as PayTM in Payment_details table');

WHEN others THEN

dbms_output.put_line('An error occurred: ' || SQLERRM);

END;

11

END;
```