

DOORDASH-3: PROJECT REPORT

PROJECT TITLE: DOORDASH

COURSE NO-SECTION NO.: CS 6360.001

TEAM NUMBER: TEAM - 18 (DOORDASH-3)

TEAM MEMBERS(NET-IDs):

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DATA REQUIREMENTS:

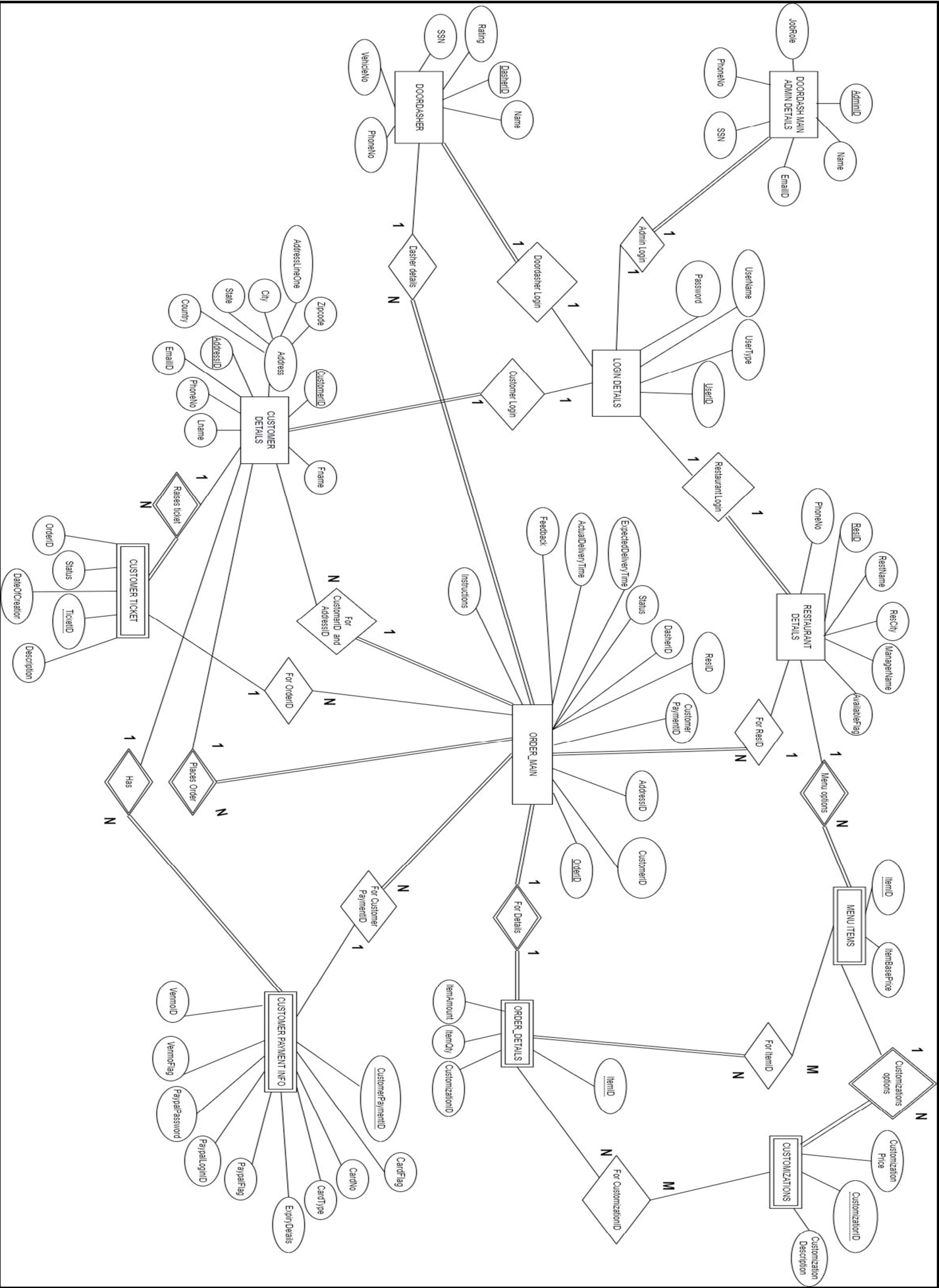
Main Actors involved:

1. Customer
2. Restaurant Admin
3. Door Dasher
4. DoorDash Admin

The database follows the below functionalities:

1. There are multiple users in our Doordash application like Customer, Restaurant_admin and DoordDasher along with Doordash_admin.
2. A customer can register into the Doordash application and login into the application using their credentials.
3. A customer can search for the restaurants.
4. A customer can select items from a particular restaurant only in the cart.
5. A customer can add items to his/her cart.
6. A customer can check out from his/her cart and place the order.
7. A customer can make payment for the order and can have three types of payment methods: Card, PayPal, and Venmo. A customer can have multiple cards.
8. A customer can check the status of the order.
9. A customer can contact the restaurant for any queries.
10. A Restaurant Admin can add/edit/delete his/her restaurant profile in Doordash.
11. A Restaurant Admin can add/edit/delete menu items of his/her restaurant.
12. When an order is placed by the customer, the restaurant gets notifications.
13. A Door Dasher gets a notification from all the nearby restaurants within a specific radius after the restaurant accepts the customers' orders.
14. A Door Dasher can select an available order from the received notifications according to his/her choice.
15. A Door Dasher receives a notification when the order is ready in the selected restaurant.
16. The restaurant will keep changing the status of the order until it is picked by the dasher and after that, the dasher will change the status of the order until it is delivered.
17. Customers can give feedback on an order and also give ratings.
18. Customers can also raise any number of tickets on a specific order in case of any problems or queries. Customers can raise tickets in general also without involving any order in the ticket.
19. Doordash admin will have all privileges like edit or delete Customer details or Restaurant details or Doordasher details.
20. Admin will look over the raised tickets and resolve them timely and change the status of the ticket accordingly.

ER-DIAGRAM:



ASSUMPTIONS:

1. Login credentials of every user type (let it be Customer, Restaurant admin, Doordasher or Doordash Admin) will be stored in a single table and will be recognized using a unique UserID allocated to every user.
2. A customer can have multiple addresses, that's the reason why a Customer along with a specific address will be uniquely recognized while placing an Order.
3. If a customer doesn't have any payment method, he/she will have to add at least one payment method first to place an order.
4. A customer can have only a maximum of one customization for a selected item in the cart. For e.g., if an item 'A' has C1 and C2 customizations available, then while placing an order Customer can only choose a maximum of one customization among C1 and C2 for item 'A' or none at all.
5. Customer Payment Info and Customer Ticket are weak entities in our scenario, i.e., although a ticket has a ticketid or a payment method has a payment id, it will be uniquely recognized if it is combined with its specific owner, i.e., CustomerID in our case. For example, there can be tickets with ticket-ids 1 & 2 for customer-ids 100 and 101 both and these can be uniquely recognized only if customer-id and ticket-id are combined. The same type of example can be applied to payment methods.
6. A ticket can be raised on a specific order or can be raised in general without involving any order. For e.g., A customer can raise a ticket on orderid 'N' or he/she can raise a general ticket for asking a general query. In the latter case, orderid details won't be stored in the database.
7. Similarly, Menu items and Customization ids for a specific item are also weak entities in our scenario where item-id values and customization-id values can repeat for different restaurants and different items in the same restaurant respectively.

ER-DIAGRAM TO RELATIONAL SCHEMA:

LOGIN_DETAILS:

UserID	UserName	Password
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Primary Key: UserID

DOORDASH_MAIN_ADMIN DETAILS:

AdminID	Name	EmailID	SSN	PhoneNo	JobRole
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Primary Key: AdminID

Foreign key references: DOORDASH_MAIN_ADMIN_DETAILS(AdminID) ----> LOGIN_DETAILS(UserID)

DOORDASHER:

DasherID	Name	PhoneNo	VehicleNo	SSN	Rating
----------	------	---------	-----------	-----	--------

Primary Key: DasherID

Foreign key references: DOORDASHER (DasherID) ----> LOGIN_DETAILS(UserID)

RESTAURANT_DETAILS:

ResID	RestName	ResCity	PhoneNo	ManagerName	ResRating	AvailableFlag
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Primary Key: ResID

Foreign key references: RESTAURANT_DETAILS (ResID) ----> LOGIN_DETAILS(UserID)

MENU_ITEMS:

ResID	ItemID	ItemBasePrice
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Primary Key: ResID, ItemID

Foreign key references: MENU_ITEMS(ResID) ----> RESTAURANT_DETAILS (ResID)

CUSTOMIZATIONS:

ResID	ItemID	CustomizationID	CustomizationPrice	CustomizationDescription
-------	--------	-----------------	--------------------	--------------------------

Primary Key: ResID, ItemID, CustomizationID

Foreign key references: CUSTOMIZATIONS (ResID) ----> RESTAURANT_DETAILS (ResID),

CUSTOMIZATIONS (ItemID) ----> MENU_ITEMS (ItemID)

CUSTOMER_DETAILS:

CustomerID	AddressID	FName	LName	PhoneNo	EmailID	AddressLineOne	City	State	Zipcode	Country
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Primary Key: CustomerID, AddressID

Foreign key references: CUSTOMER_DETAILS (CustomerID) ----> LOGIN_DETAILS(UserID)

CUSTOMER_PAYMENT_INFO:

CustomerID	CustomerPaymentID	CardFlag	CardNo	CardType	ExpiryDetails	PaypalFlag	PaypalLoginID	PaypalPassword	VenmoFlag	VenmoID
------------	-------------------	----------	--------	----------	---------------	------------	---------------	----------------	-----------	---------

Primary Key: CustomerID, CustomerPaymentID

Foreign key references: CUSTOMER_PAYMENT_INFO(CustomerID) ----> CUSTOMER_DETAILS (CustomerID)

CUSTOMER_TICKET:

CustomerID	TicketID	OrderID	DateOfCreation	Status	Description
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Primary Key: CustomerID, TicketID

Foreign key references: CUSTOMER_TICKET (CustomerID) ----> CUSTOMER_DETAILS (CustomerID),

CUSTOMER_TICKET (OrderID) ----> ORDER_MAIN (OrderID)

ORDER_MAIN:

OrderID	CustomerID	AddressID	ResID	CustomerPaymentID	DasherID	Status	ExpectedDeliveryTime	ActualDeliveryTime	Feedback	Instructions
---------	------------	-----------	-------	-------------------	----------	--------	----------------------	--------------------	----------	--------------

Primary Key: OrderID

Foreign key references: ORDER_MAIN(CustomerID) ----> CUSTOMER_DETAILS (CustomerID),

ORDER_MAIN(AddressID) ----> CUSTOMER_DETAILS (AddressID), ORDER_MAIN(ResID) ----> RESTAURANT_DETAILS (ResID),

ORDER_MAIN(CustomerPaymentID) ----> CUSTOMER_PAYMENT_INFO (CustomerPaymentID),

ORDER_MAIN(DasherID) ----> DOORDASHER(DasherID)

ORDER_DETAILS:

OrderID	ItemID	CustomizationID	ItemQty	ItemAmount
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Primary Key: OrderID, ItemID

Foreign key references: ORDER_DETAILS(OrderID) ----> ORDER_MAIN (OrderID),

ORDER_DETAILS(ItemID) ----> MENU_ITEMS (ItemID),

ORDER_DETAILS(CustomizationID) ----> CUSTOMIZATIONS(CustomizationID)

NORMALIZATION OF RELATIONAL SCHEMAS:

Normalization rules:

- **Normalization** - A technique for organizing data in a database is called Normalization. A database must be normalized in order to reduce the redundancy of the data and ensure that only related data is stored in the database tables. It also prevents any issues caused by database modifications like insertions, deletions, and updations. Normalization is carried out in practice so that the resulting designs are of high quality and meet the desirable properties.
- **Normal Form** - To certify that a relation schema is in a certain normal form, we use the keys and FDs of the relation.
 - ◆ **First Normal Form**
 - First Normal Form disallows Composite attributes, multivalued attributes, and nested relations where attributes whose values for an individual tuple are non-atomic.
 - Most RDBMS allow relations to be in 1st Normal form. Our above-defined relations are in 1NF.
 - ◆ **Second Normal Form**
 - In the Second Normal Form Non-prime, the attribute is fully functional dependent on the primary key.
 - In the above CUSTOMER_DETAILS table, some non-prime attributes like FName, LName, PhoneNo, EmailID are partially dependent on the primary key that is CustomerID. So, it does not satisfy 2NF.
 - We decompose the table wherein one table CustomerID uniquely identifies FName, LName, PhoneNo, EmailID. And we retain other attributes in the original table.
 - ◆ **Third Normal Form**
 - In the Third Normal Form no non-prime attribute is transitively dependent on the primary key.
 - Our above-defined relations are in 3NF except for the above CUSTOMER_DETAILS which will be in 3NF after decomposition into CUSTOMER_DETAILS_MAIN and CUSTOMER_ADDRESS_DETAILS as shown below.

NORMALIZATION:

LOGIN_DETAILS:

UserID	UserType	Username	Password
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Note: The above table doesn't need any normalization

DOORDASH_MAIN_ADMIN_DETAILS:

AdminID	Name	EmailID	SSN	PhoneNo	JobRole
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Note: The above table doesn't need any normalization

DOORDASHER:

DasherID	Name	PhoneNo	VehicleNo	SSN	Rating
----------	------	---------	-----------	-----	--------

Note: The above table doesn't need any normalization

RESTAURANT_DETAILS:

ResID	RestName	ResCity	PhoneNo	ManagerName	ResRating	AvailableFlag
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Note: The above table doesn't need any normalization

MENU_ITEMS:

ResID	ItemID	ItemBasePrice
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Note: The above table doesn't need any normalization

CUSTOMIZATIONS:

ResID	ItemID	CustomizationID	CustomizationPrice	CustomizationDescription
-------	--------	-----------------	--------------------	--------------------------

Note: The above table doesn't need any normalization

CUSTOMER_DETAILS:

CustomerID	AddressID	FName	LName	PhoneNo	EmailID	AddressLineOne	City	State	Zipcode	Country
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Here FName, LName, PhoneNo and EmailID specifically depends on only CustomerID. Therefore, it doesn't follow 2NF.

Normalization of CUSTOMER_DETAILS Table:

CUSTOMER_DETAILS_MAIN:

CustomerID	FName	LName	PhoneNo	EmailID
------------	-------	-------	---------	---------

Primary Key: CustomerID

CUSTOMER_ADDRESS_DETAILS:

CustomerID	AddressID	AddressLineOne	City	State	Zipcode	Country
------------	-----------	----------------	------	-------	---------	---------

Primary Key: CustomerID, AddressID

Foreign key references: CUSTOMER_ADDRESS_DETAILS(CustomerID) ----> CUSTOMER_DETAILS_MAIN(CustomerID)

CUSTOMER_PAYMENT_INFO:

CustomerID	CustomerPaymentID	CardFlag	CardNo	CardType	ExpiryDetails	PaypalFlag	PaypalLoginID	PaypalPassword	VenmoFlag	VenmoID
------------	-------------------	----------	--------	----------	---------------	------------	---------------	----------------	-----------	---------

Note: The above table doesn't need any normalization

CUSTOMER_TICKET:

CustomerID	TicketID	OrderID	DateOfCreation	Status	Description
------------	----------	---------	----------------	--------	-------------

Note: The above table doesn't need any normalization

ORDER_MAIN:

OrderID	CustomerID	AddressID	ResID	CustomerPaymentID	DasherID	Status	ExpectedDeliveryTime	ActualDeliveryTime	Feedback	Instructions
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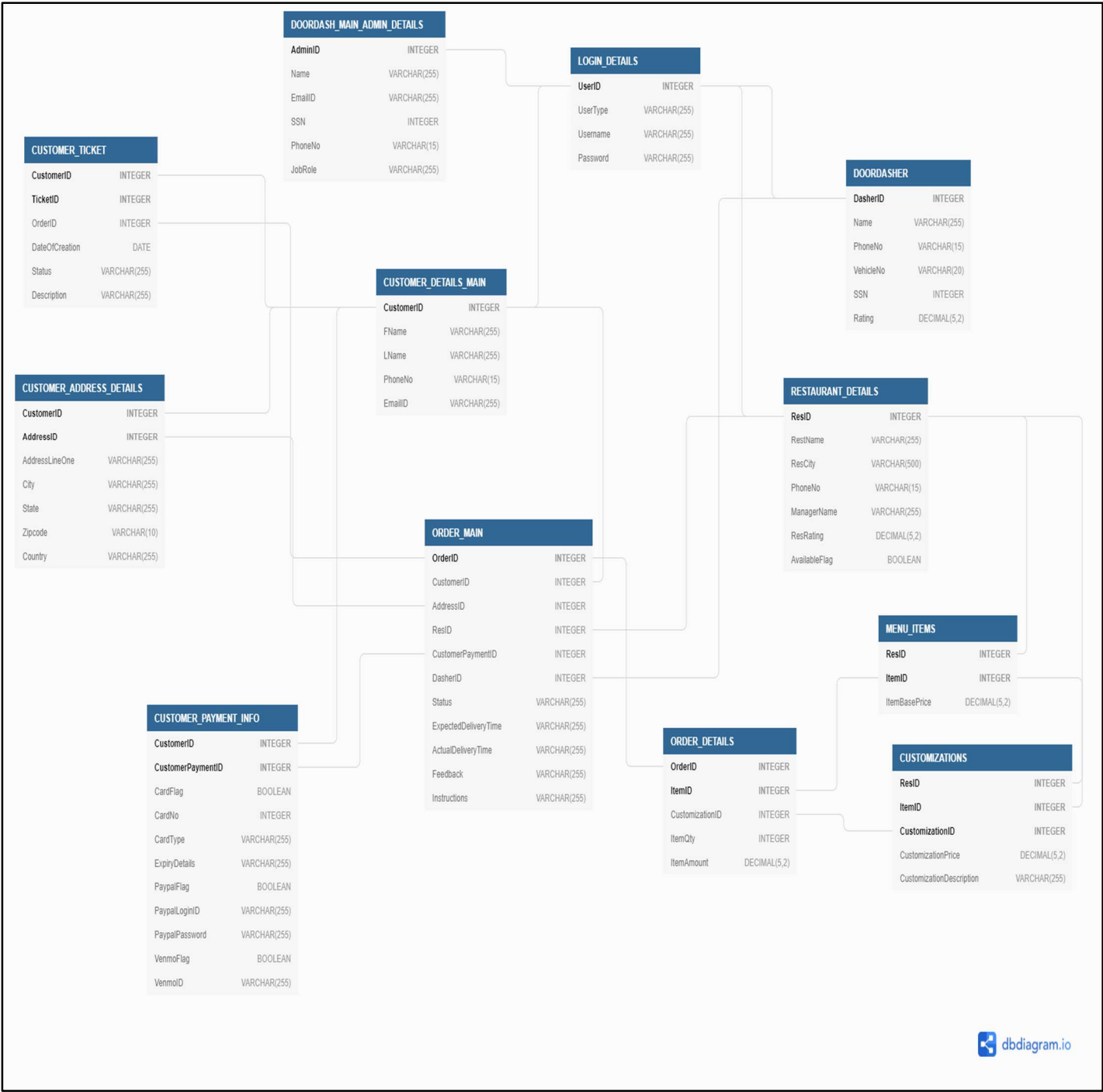
Note: The above table doesn't need any normalization

ORDER_DETAILS:

OrderID	ItemID	CustomizationID	ItemQty	ItemAmount
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Note: The above table doesn't need any normalization

FINAL RELATIONAL SCHEMA AFTER NORMALIZATION:



SQL QUERIES:

CREATE TABLE QUERIES:

```
CREATE TABLE LOGIN_DETAILS
(UserID INTEGER,
 UserType VARCHAR(255) NOT NULL,
 Username VARCHAR(255) NOT NULL,
 Password VARCHAR(255) NOT NULL,
 PRIMARY KEY (UserID)
);
```

```
CREATE TABLE DOORDASH_MAIN_ADMIN_DETAILS
(AdminID INTEGER,
 Name VARCHAR(255) NOT NULL,
 EmailID VARCHAR(255) NOT NULL,
 SSN INTEGER NOT NULL,
 PhoneNo VARCHAR(15) NOT NULL,
 JobRole VARCHAR(255) NOT NULL,
 PRIMARY KEY (AdminID)
);
```

```
CREATE TABLE DOORDASHER
( DasherID INTEGER,
 Name VARCHAR(255) NOT NULL,
 PhoneNo VARCHAR(15) NOT NULL,
 VehicleNo VARCHAR(20) NOT NULL,
 SSN INTEGER NOT NULL UNIQUE,
 Rating DECIMAL(5,2),
 PRIMARY KEY (DasherID)
);
```

```
CREATE TABLE RESTAURANT_DETAILS
( ResID INTEGER,
 RestName VARCHAR(255) NOT NULL,
 ResCity VARCHAR(500) NOT NULL,
 PhoneNo VARCHAR(15) NOT NULL,
 ManagerName VARCHAR(255) NOT NULL,
 ResRating DECIMAL(5,2),
 AvailableFlag BOOLEAN NOT NULL,
 PRIMARY KEY(ResID)
);
```

```
CREATE TABLE MENU_ITEMS
(ResID INTEGER,
ItemID INTEGER,
ItemBasePrice DECIMAL(5,2),
PRIMARY KEY(ResID,ItemID)
);
```

```
CREATE TABLE CUSTOMIZATIONS
( ResID INTEGER,
ItemID INTEGER,
CustomizationID INTEGER,
CustomizationPrice DECIMAL(5,2) NOT NULL,
CustomizationDescription VARCHAR(255) NOT NULL,
PRIMARY KEY(ResID,ItemID,CustomizationID)
);
```

```
CREATE TABLE CUSTOMER_DETAILS_MAIN
( CustomerID INTEGER,
FName VARCHAR(255) NOT NULL,
LName VARCHAR(255) NOT NULL,
PhoneNo VARCHAR(15) NOT NULL,
EmailID VARCHAR(255) NOT NULL,
PRIMARY KEY(CustomerID)
);
```

```
CREATE TABLE CUSTOMER_ADDRESS_DETAILS
(CustomerID INTEGER,
AddressID INTEGER,
AddressLineOne VARCHAR(255) NOT NULL,
City VARCHAR(255) NOT NULL,
State VARCHAR(255) NOT NULL,
Zipcode VARCHAR(10) NOT NULL,
Country VARCHAR(255) NOT NULL DEFAULT 'USA',
PRIMARY KEY(CustomerID,AddressID)
);
```

```
CREATE TABLE CUSTOMER_PAYMENT_INFO
(CustomerID INTEGER,
CustomerPaymentID INTEGER,
CardFlag BOOLEAN NOT NULL,
CardNo INTEGER,
CardType VARCHAR(255),
ExpiryDetails VARCHAR(255),
PaypalFlag BOOLEAN NOT NULL,
PaypalLoginID VARCHAR(255),
PaypalPassword VARCHAR(255),
```

```
VenmoFlag BOOLEAN NOT NULL,  
VenmoID VARCHAR(255),  
PRIMARY KEY(CustomerID, CustomerPaymentID)  
);
```

```
CREATE TABLE CUSTOMER_TICKET  
( CustomerID INTEGER,  
TicketID INTEGER,  
OrderID INTEGER,  
DateOfCreation DATE NOT NULL,  
Status VARCHAR(255) NOT NULL,  
Description VARCHAR(255) NOT NULL,  
PRIMARY KEY(CustomerID,TicketID));
```

```
CREATE TABLE ORDER_MAIN(  
OrderID INTEGER,  
CustomerID INTEGER NOT NULL,  
AddressID INTEGER NOT NULL,  
ResID INTEGER NOT NULL,  
CustomerPaymentID INTEGER NOT NULL,  
DasherID INTEGER NOT NULL,  
Status VARCHAR(255) NOT NULL,  
ExpectedDeliveryTime VARCHAR(255) NOT NULL,  
ActualDeliveryTime VARCHAR(255),  
Feedback VARCHAR(255),  
Instructions VARCHAR(255),  
PRIMARY KEY(OrderID));
```

```
CREATE TABLE ORDER_DETAILS(  
OrderID INTEGER,  
ItemID INTEGER,  
CustomizationID INTEGER,  
ItemQty INTEGER NOT NULL,  
ItemAmount DECIMAL(5,2),  
PRIMARY KEY(OrderID,ItemID));
```

ALTER TABLE (TRIGGERED ACTIONS) QUERIES:

```
ALTER TABLE DOORDASH_MAIN_ADMIN_DETAILS ADD  
CONSTRAINT adminidfk FOREIGN KEY(AdminID)  
REFERENCES LOGIN_DETAILS(UserID) ON DELETE  
CASCADE;
```

```
ALTER TABLE DOORDASHER ADD CONSTRAINT dasheridfk  
FOREIGN KEY(DasherID) REFERENCES  
LOGIN_DETAILS(UserID) ON DELETE CASCADE;
```

```
ALTER TABLE RESTAURANT_DETAILS ADD CONSTRAINT  
residfk FOREIGN KEY(ResID) REFERENCES  
LOGIN_DETAILS(UserID) ON DELETE CASCADE;
```

```
ALTER TABLE MENU_ITEMS ADD CONSTRAINT residfk2  
FOREIGN KEY(ResID) REFERENCES  
RESTAURANT_DETAILS(ResID) ON DELETE CASCADE;
```

```
ALTER TABLE CUSTOMIZATIONS ADD CONSTRAINT residfk3  
FOREIGN KEY(ResID) REFERENCES  
RESTAURANT_DETAILS(ResID) ON DELETE CASCADE;
```

```
ALTER TABLE CUSTOMIZATIONS ADD CONSTRAINT itemidfk  
FOREIGN KEY(ItemID) REFERENCES MENU_ITEMS(ItemID) ON  
DELETE CASCADE;
```

```
ALTER TABLE CUSTOMER_DETAILS_MAIN ADD CONSTRAINT  
customeridfk FOREIGN KEY(CustomerID) REFERENCES  
LOGIN_DETAILS(UserID) ON DELETE CASCADE;
```

```
ALTER TABLE CUSTOMER_ADDRESS_DETAILS ADD CONSTRAINT  
customeridfk2 FOREIGN KEY(CustomerID) REFERENCES  
CUSTOMER_DETAILS_MAIN(CustomerID) ON DELETE CASCADE;
```

```
ALTER TABLE CUSTOMER_PAYMENT_INFO ADD CONSTRAINT  
customeridfk3 FOREIGN KEY(CustomerID) REFERENCES  
CUSTOMER_DETAILS_MAIN(CustomerID) ON DELETE CASCADE;
```

```
ALTER TABLE CUSTOMER_TICKET ADD CONSTRAINT customeridfk4  
FOREIGN KEY(CustomerID) REFERENCES  
CUSTOMER_DETAILS_MAIN(CustomerID) ON DELETE CASCADE;
```

```
ALTER TABLE CUSTOMER_TICKET ADD CONSTRAINT orderidfk  
FOREIGN KEY(OrderID) REFERENCES ORDER_MAIN(OrderID) ON  
DELETE CASCADE;
```

```
ALTER TABLE ORDER_MAIN ADD CONSTRAINT customeridfk5  
FOREIGN KEY(CustomerID) REFERENCES  
CUSTOMER_DETAILS_MAIN(CustomerID) ON DELETE CASCADE;
```

```
ALTER TABLE ORDER_MAIN ADD CONSTRAINT addressidfk FOREIGN  
KEY(AddressID) REFERENCES CUSTOMER_ADDRESS_DETAILS (AddressID)  
ON DELETE CASCADE;
```

```
ALTER TABLE ORDER_MAIN ADD CONSTRAINT residfk4 FOREIGN  
KEY(ResID) REFERENCES RESTAURANT_DETAILS(ResID) ON  
DELETE CASCADE;
```

```
ALTER TABLE ORDER_MAIN ADD CONSTRAINT paymentidfk  
FOREIGN KEY(CustomerPaymentID) REFERENCES  
CUSTOMER_PAYMENT_INFO(CustomerPaymentID) ON DELETE  
CASCADE;
```

```
ALTER TABLE ORDER_MAIN ADD CONSTRAINT dasheridfk2  
FOREIGN KEY(DasherID) REFERENCES  
DOORDASHER(DasherID) ON DELETE CASCADE;
```

```
ALTER TABLE ORDER_DETAILS ADD CONSTRAINT orderidfk2  
FOREIGN KEY(OrderID) REFERENCES ORDER_MAIN(OrderID) ON  
DELETE CASCADE;
```

```
ALTER TABLE ORDER_DETAILS ADD CONSTRAINT itemidfk2  
FOREIGN KEY(ItemID) REFERENCES MENU_ITEMS(ItemID) ON  
DELETE CASCADE;
```

```
ALTER TABLE ORDER_DETAILS ADD CONSTRAINT  
customizationid FOREIGN KEY(CustomizationID) REFERENCES  
CUSTOMIZATIONS(CustomizationID) ON DELETE CASCADE;
```

STORED PROCEDURES:

Creating a procedure which will display restaurants based on a given range of ratings(min to max rating):

Create or replace procedure sort_rest_ratings

```
(  
minRating IN DECIMAL(5,2)  
maxRating IN DECIMAL(5,2)  
)  
AS  
myRestName RESTAURANT_DETAILS.RestName%TYPE;  
myResRating RESTAURANT_DETAILS.ResRating%TYPE;  
CURSOR my_rest_rating IS  
SELECT RestName,ResRating FROM Restaurant_Details WHERE  
ResRating >= minRating AND ResRating <=maxRating  
ORDER BY ResRating DESC;  
  
BEGIN  
OPEN my_rest_rating;  
dbms_output.put_line('Restaurants having ratings sorted in the given range:\n');  
LOOP  
FETCH my_rest_rating INTO myRestName,myResRating;  
EXIT WHEN(my_rest_rating%NOTFOUND);  
dbms_output.put_line(myRestName || ' ' || myResRating);  
END LOOP;  
CLOSE my_rest_rating;  
EXCEPTION  
WHEN NO_DATA_FOUND THEN  
dbms_output.put_line('No Restaurants in the given range');  
END sort_rest_ratings;
```

Creating a procedure that calculates the total no. of orders which were delivered before the expected time by dashers.

Create or replace procedure fast_delivered_orders AS

myDasher ORDER_MAIN.DasherID%TYPE;

myCount NUMBER;

CURSOR my_fast_orders IS

SELECT DasherID,COUNT(OrderID) FROM ORDER_MAIN WHERE

ActualDeliveryTime < ExpectedDeliveryTime GROUP BY DasherID ORDER BY
COUNT(OrderID) DESC ;

BEGIN

OPEN my_fast_orders;

dbms_output.put_line('Orders Delivered before expected delivery time:\n');

LOOP

FETCH my_fast_orders INTO myDasher,myCount;

EXIT WHEN(my_fast_orders%NOTFOUND);

dbms_output.put_line(myDasher || ',' || myCount);

END LOOP;

CLOSE my_fast_orders;

EXCEPTION

WHEN NO_DATA_FOUND THEN

dbms_output.put_line('No Orders delivered before expected Delivery time');

END fast_delivered_orders;

TRIGGERS:

TRIGGER 1:

A trigger to check if a restaurant is available before a customer places an order from that restaurant

```
CREATE or REPLACE TRIGGER is_rest_available_before_order
```

```
BEFORE INSERT ON ORDER_MAIN
```

```
FOR EACH ROW
```

```
DECLARE
```

```
Available RESTAURANT_DETAILS.AvailableFlag%TYPE;
```

```
BEGIN
```

```
SELECT AvailableFlag INTO Available FROM RESTAURANT_DETAILS
```

```
WHERE ResID = :NEW.ResID;
```

```
IF (Available == 'N') THEN
```

```
Raise_Application_Error(-20000, 'You can't place the order when the restaurant is not  
available!!');
```

```
END IF;
```

```
END;
```


TRIGGER 2:

A trigger to check if the customer 's location(city) is same as restaurant's location(city)

```
CREATE or REPLACE TRIGGER is_order_city_sameas_rest_city
BEFORE INSERT ON ORDER_MAIN
FOR EACH ROW
DECLARE
X NUMBER;
BEGIN
SELECT COUNT(*) INTO X from CUSTOMER_DETAILS C INNER JOIN
RESTAURANT_DETAILS R ON C.City= R.ResCity WHERE C.CustomerID= :NEW.CustomerID
AND C.AddressID= :NEW.AddressID AND R.ResID= :NEW.Res.ID

IF (X == 0) THEN
Raise_Application_Error(-20000, 'You can't place an order as Order city is different from
Restaurant City');
END IF;
END;
```