# **PROJECT REPORT**

# **Group No.**: 14

# **Member Details:**

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# **Project Description**

The objective of this project is to develop an online grocery store where any grocery products can be bought from the comfort of home through the Internet. This system will be a mediator between distributors and customers.

The system is divided into two parts:

- The data of distributors and branches handled by them and stock availability is collected.
- The products are displayed to customers according to the availability, and data related to their orders is stored.

There are three roles available:

- Admin
- Distributor
- Customer

#### **Distributor**

- For every branch, there is a distributor. Stores have many grocery items, with some available stocks maintained by the branch distributor.
- ➤ Distributors will be able to view and respond to their orders. They can also view customer details and addresses, sales, and available stock of items for a particular branch.

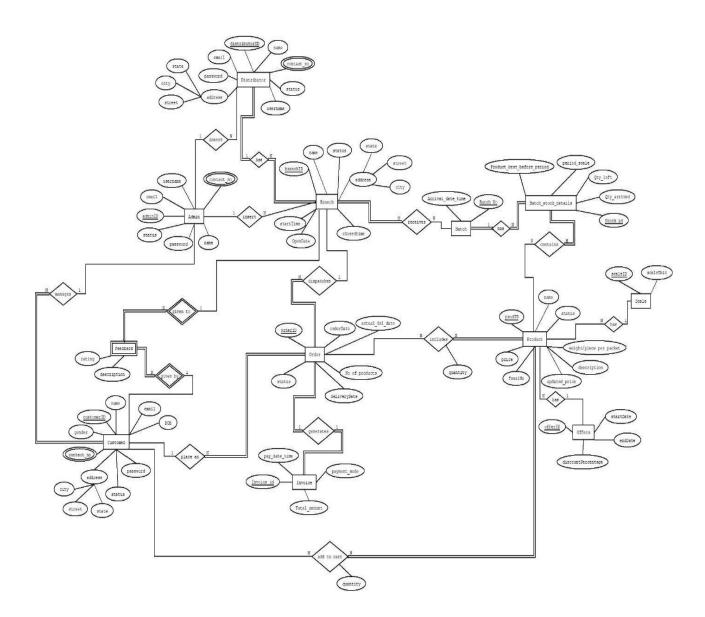
#### <u>Admin</u>

- > can add products, edit products, update and remove products.
- can block a distributor or a customer if required.
- > can view the branch details and sales, customer reviews, stock reports.

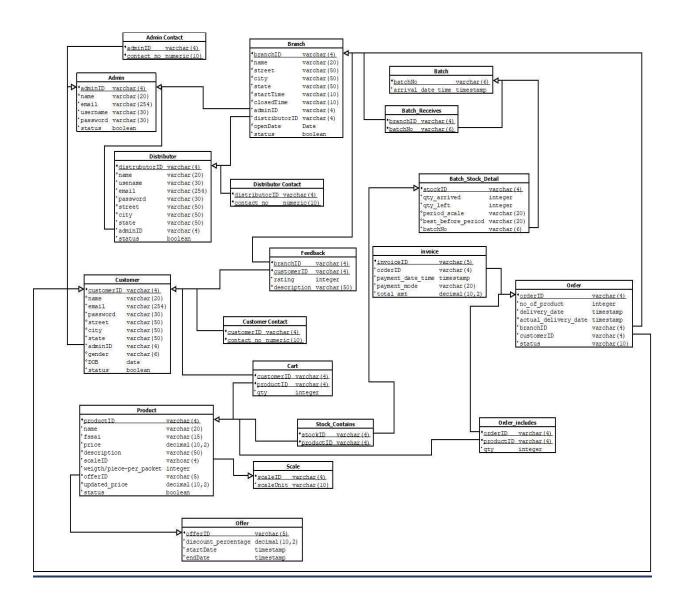
#### **Customer**

- In this virtual store, customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart.
- A customer will register or sign-up for features like purchasing products, adding to cart, order history, give feedback.
- > Customers can view and order the grocery items from any available branch in their area and be able to check his/her past orders and can give feedback for that branch. He/she can even cancel the placed order.

# E-R Diagram:



# Relation Schema Diagram:



# FUNCTIONAL DEPENDENCIES AND CONTRAINTS CLASSIFICATION

# Table: Admin

# Table Attributes:

adminID, email, username, password, status

# **Functional Dependencies:**

```
adminID -> email
adminID -> name
adminID -> username
adminID -> password
adminID -> status
email -> adminID
email -> name
email -> username
email -> password
```

#### **Constraints:**

- a) Primary Key : adminIDb) Foreign Key : None
- c) Referential : Distributor Table, Admin\_Contact Table, Branch Table, Customer Table
- d) Domain:

email -> status

```
adminID varchar(4) PRIMARY KEY,
name varchar(20) (NOT NULL),
username varchar(30) (NOT NULL),
email varchar(254) (NOT NULL) check (email LIKE '%0%.%'
AND email NOT LIKE '0%' AND email NOT LIKE '%0%0%'),
password varchar(30) (NOT NULL),
status boolean DEFAULT true
```

#### GROUP-14 ONLINE GROCERY STORE MANAGEMENT SYSTEM

Here, Not in BCNF Form because email determines other attributes also but email can
not be assign as primary key because in scenario where email ID is blocked we can still
access that tuple with adminID.

# Table : Admin\_Contact

# <u>Table Attributes:</u>

adminID, contact\_no

#### **Functional Dependencies:**

No Functional Dependency.

#### **Constraints:**

a) Primary Key: adminID, contact\_no

b) Foreign Key : adminIDc) Referential : None

d) Domain:

```
adminID varchar(4) PRIMARY KEY ,
contact no numeric(10) PRIMARY KEY
```

• Here, our relation is in BCNF Form.

#### Table: Branch

# Table Attributes:

branchID, name, street, city, state, startTime, closedTime, distributorID, openDate, status

#### **Functional Dependencies:**

```
branchID -> name
```

branchID -> status

branchID -> street

branchID -> city

```
branchID -> state
```

branchID -> startTime

branchID -> closedTime

branchID -> distributorID

branchID -> openDate

#### Constraints:

- a) Primary Key: branchID
- b) Foreign Key: distributorID, adminID
- c) Referential: Branch\_Receives Table, Feedback Table, Order Table

#### d) Domain:

```
branchID varchar(4) PRIMARY KEY
name varchar(20)
street varchar(50)
city varchar(50)
state varchar(50) (NOT NULL)
startTime varchar(10)
closedTime varchar(10)
adminID varchar(4) (NOT NULL)
distributorID varchar(4) (NOT NULL)
openDate date
status boolean DEFAULT true
```

• Here, as we have branchID as key which defines all the attributes, so our relation is in BCNF Form.

# **Table: Distributor**

#### <u>Table Attributes</u>:

distributorID, name, email, password, street, city, state, adminID, status

# **Functional Dependencies:**

```
distributorID -> name
distributorID -> email
```

distributorID -> password

```
distributorID -> street
distributorID -> city
distributorID -> state
distributorID -> adminID
distributorID -> status
email -> distributorID
email -> name
email -> password
email -> street
email -> city
email -> state
email -> adminID
email -> status
```

#### Constraints:

a) Primary Key : distributorID

b) Foreign Key: adminID

c) Referential: Branch Tabel, Distributor\_Contact Table

d) Domain:

```
distributorID varchar(4) PRIMARY KEY
name varchar(20)
username varchar(30) (NOT NULL)
email varchar(254) (NOT NULL) check (email LIKE '%0%.%'
AND email NOT LIKE '0%' AND email NOT LIKE '%0%0%')
password varchar(30) (NOT NULL)
street varchar(50)
city varchar(50)
state varchar(50) (NOT NULL)
adminID varchar(4) (NOT NULL)
status boolean DEFAULT true
```

 Here, Not in BCNF Form because email determines other attributes also but email can not be assign as primary key because in scenario where email ID is blocked we can still access that tuple with distributorID.

# Table: Distributor\_Contact

# <u>Table Attributes</u>:

distributorID, contact\_no

# **Functional Dependencies:**

No Functional Dependency.

# **Constraints:**

a) Primary Key: distributorID, contact\_no

b) Foreign Key: distributorID

c) Referential: None

d) Domain:

```
distributorID varchar(4) PRIMARY KEY
contact no numeric(10) PRIMARY KEY
```

• Here, our relation is in BCNF Form.

# Table: Order

# Table Attributes:

orderID, orderDate, no\_of\_product, deliveryDate, actual\_deliver\_date, branchID, customerID, status

# **Functional Dependencies:**

```
orderID -> orderDate

orderID -> no_of_product

orderID -> deliveryDate

orderID -> actual_delivery_date

orderID -> status

orderID -> branchID

orderID -> customerID
```

# **Constraints:**

a) Primary Key: orderID

b) Foreign Key: branchID, customerID

c) Referential: Invoice Table, Order\_Includes Table

d) Domain:

```
orderID varchar(4)
no_of_product integer (NOT NULL)
deliveryDate timestamp (NOT NULL)
actual_delivery_date timestamp
branchID varchar(4) (NOT NULL)
customerID varchar(4) (NOT NULL)
status varchar(10) DEFAULT pending
```

• Here, as we have orderID as key which defines all the attributes, so our relation is in BCNF Form.

# Table: Batch

# Table Attributes:

batchNo, arrival\_date\_time

# **Functional Dependencies:**

batchNo -> arrival\_date\_time

# **Constraints**:

a) Primary Key: batchNo

b) Foreign Key: None

c) Referential: Batch\_Receives Table, Batch\_Stock\_Details Table

d) Domain:

```
batchNo varchar(6)
arrival date time timestamp (NOT NULL)
```

• Here, as we have batchNo as key which defines all the attributes, so our relation is in BCNF Form.

# Table: Batch\_Receives

# Table Attributes:

branchID, batchNo

# **Functional Dependencies:**

No functional dependencies.

# **Constraints**:

a) Primary Key: branchID, batchNob) Foreign Key: branchID, batchNo

c) Referential: None

d) Domain:

```
branchID varchar(4) PRIMARY KEY
batchNo varchar(6) PRIMARY KEY
```

• Here, our relation is in BCNF Form .

# **Table: Feedback**

# <u>Table Attributes:</u>

branchId, customerID, rating, description

# **Functional Dependencies:**

branchID, customerID -> rating

branchID, customerID -> description

# **Constraints:**

a) Primary Key: branchID, customerIDb) Foreign Key: branchID, customerID

c) Referential: None

#### d) Domain:

```
branchID varchar(4) PRIMARY KEY
customerID varchar(4) PRIMARY KEY
rating integer (NOT NULL)
description varchar(50)
```

• Here, as we have branchID and customerID as key which defines all the attributes, so our relation is in BCNF Form.

# **Table: Customer**

# **Table Attributes:**

customerID, name, email, password, street, city, state, adminID, gender, DOB, status

# **Functional Dependencies:**

```
customerID -> name
customerID -> email
customerID -> password
customerID -> street
customerID -> city
customerID -> state
customerID -> adminID
customerID -> gender
customerID -> DOB
customerID -> status
email -> customerID
email -> name
email -> password
email -> street
email -> city
email -> state
email -> adminID
email -> gender
```

```
email -> DOB
email -> status
```

# **Constraints:**

a) Primary Key : customerIDb) Foreign Key : adminID

c) Referential: Customer\_Contact Table, Order Table, Cart Table

d) Domain:

```
customerID varchar(4) PRIMARY KEY
name varchar(20)
email varchar(254) (NOT NULL) check (email LIKE '%@%.%'
AND email NOT LIKE '@%' AND email NOT LIKE '%@%@%')
password varchar(30) (NOT NULL)
street varchar(50)
city varchar(50)
state varchar(50)
adminID varchar(4) (NOT NULL)
gender varchar(6) CHECK(gender in('male','female'))
DOB date
status boolean DEFAULT true
```

Here, Not in BCNF Form because email determines other attributes also but email can
not be assign as primary key because in scenario where email ID is blocked we can still
access that tuple with customerID.

# Table : Customer\_Contact

#### Table Attributes:

customerID, contact\_no

# **Functional Dependencies:**

No Functional Dependency.

# **Constraints:**

a) Primary Key: customerID, contact\_no

b) Foreign Key: customerID

c) Referential: None

d) Domain:

#### GROUP-14 ONLINE GROCERY STORE MANAGEMENT SYSTEM

```
customerID varchar(4) PRIMARY KEY
contact no numeric(10)
```

• Here, our relation is in BCNF Form.

# Table: Cart

# Table Attributes:

customerID, productid, qty

# **Functional Dependencies:**

customerID, productID -> qty

# **Constraints**:

- a) Primary Key: customerID, productIDb) Foreign Key: customerID, productid
- c) Referential: None
- d) Domain:

```
customerID varchar(4) PRIMARY KEY
productID varchar(4) PRIMARY KEY
qty integer (NOT NULL)
```

 Here, as we have customerID and productID as key which defines all the attributes, so our relation is in BCNF Form.

# Table: Scale

#### Table Attributes:

scaleID, scaleUnit

# <u>Functional Dependencies:</u>

scaleID -> scaleUnit

# Constraints:

#### GROUP-14 ONLINE GROCERY STORE MANAGEMENT SYSTEM

a) Primary Key : scaleIDb) Foreign Key : None

c) Referential: Product Table

d) Domain:

```
scaleID varchar(4) PRIMARY KEY
scaleUnit varchar(10) (NOT NULL)
```

 Here, as we have scaleID as key which defines all the attributes, so our relation is in BCNF Form.

# Table: Product

# Table Attributes:

prodID, name, fssai, price, description, status, scaleID, weight/piece per packet, offerID, updated\_price

# **Functional Dependencies:**

```
prodID -> name

prodID -> fssai

prodID -> price

prodID -> description

prodID -> status

prodID -> scaleID

prodID -> weight/piece per packet

prodID -> offerID

prodID -> updated_price

prodID -> name

fssai -> prodID

fssai -> price

fssai -> status

fssai -> scaleID
```

```
fssai -> weight/piece per packet
fssai -> offerID
fssai - > updated_price
```

# Constraints:

a) Primary Key: prodID

b) Foreign Key: scaleID, offerID

c) Referential: Cart Table, Stock\_Contains Table, Order\_Includes Table

d) Domain:

```
prodID varchar(4) PRIMARY KEY
name varchar(20) (NOT NULL)
fssai varchar(15) (NOT NULL)
price decimal(10,2)(NOT NULL)
description varchar(50)
scaleID varchar(4)(NOT NULL)
weight/piece_per_packet integer (NOT NULL)
offerID varchar(5)
updated_price decimal(10,2)
status oolean DEFAULT true
```

 Here, Not in BCNF Form because fssai which is a non-prime key attribute determines other attributes also. But for simplicity we are using prodID as primary key.

# Table: Order\_Includes

# <u>Table Attributes:</u>

prodID, orderID, qty

# **Functional Dependencies:**

orderID, prodID -> qty

# **Constraints**:

a) Primary Key : orderID, prodIDb) Foreign Key : orderID, prodID

c) Referential: None

d) Domain:

#### GROUP-14 ONLINE GROCERY STORE MANAGEMENT SYSTEM

```
orderID varchar(4) PRIMARY KEY
prodID varchar(4) PRIMARY KEY
qty integer (NOT NULL)
```

 Here, as we have orderID and prodID as key which defines all the attributes, so our relation is in BCNF Form.

# Table: Batch\_Stock\_Detail

#### Table Attributes:

stockID, qty\_arrive, qty\_left, period\_scale, best\_before\_period, batchNo

#### **Functional Dependencies:**

```
stockID -> qty_arrive
stockID -> qty_left
stockID -> period_scale
stockID -> best_before_period
stockID -> batchNo
```

# **Constraints:**

a) Primary Key: stockIDb) Foreign Key: batchNo

c) Referential: Stock\_Contains Table

d) Domain:

```
stockID varchar(4) PRIMARY KEY
qty_arrive integer (NOT NULL)
qty_left integer (NOT NULL)
period_scale varchar(20)
best_before_period varchar(20)
batchNo varchar(6) (NOT NULL)
```

• Here, as we have stockID as key which defines all the attributes, so our relation is in BCNF Form.

# Table: Stock\_Contains

# Table Attributes:

stockID, prodID

# **Functional Dependencies:**

No Functional Dependencies.

# **Constraints:**

a) Primary Key: stockID, prodIDb) Foreign Key: stockID, prodID

c) Referential: None

d) Domain:

```
stockID varchar(4) PRIMARY KEY
prodID varchar(4) PRIMARY KEY
```

• Here, our relation is in BCNF Form

# Table: Invoice

# Table Attributes:

invoiceID, orderID, payment\_date\_time, payment\_mode, total\_amt

# **Functional Dependencies:**

```
invoiceID -> orderID
invoiceID -> payment_date_time
invoiceID -> payment_mode
invoiceID -> total_amt
```

# **Constraints:**

a) Primary Key: invoiceIDb) Foreign Key: Nonec) Referential: None

#### d) Domain:

```
invoiceID varchar(5) PRIMARY KEY
orderID varchar(4) (NOT NULL)
payment_date_time timestamp (NOT NULL)
payment_mode varchar(20) (NOT NULL)
total amt decimal(10,2) (NOT NULL)
```

 Here, as we have invoiceID as key which defines all the attributes, so our relation is in BCNF Form.

# Table: Offer

#### Table Attributes:

offerID, discount\_percentage, startDate, endDate

# **Functional Dependencies:**

```
offerID -> discount_percentage
offerID -> startDate
offerID -> endDate
```

#### Constraints:

- a) Primary Key : offerIDb) Foreign Key : none
- c) Referential:
- d) Domain:

```
offerID varchar(5) PRIMARY KEY
discount_percentage integer (NOT NULL)
startDate timestamp (NOT NULL)
endDate timestamp (NOT NULL)
```

 Here, as we have offerID as key which defines all the attributes, so our relation is in BCNF Form.

# **Trigger and function:**

# 1. Price update by offer

```
create or replace function price update()
       returns trigger as $$
       DECLARE
       perccent numeric;
       begin
       set search_path to gms14;
              select discount_percentage into percent from offer where offerid =
New.offerid;
              select (New.price-((New.price * perccent)/100)) into perccent;
              if (TG_OP = 'INSERT') THEN
                     raise notice 'bf cond';
                     IF (NEW.offerid is NULL And New.updated_price is not NULL)
THEN
                     raise notice 'af cond';
                            update product set updated_price = NULL where
prodid=NEW.prodid;
                     ELSEIF (new.updated_price!=perccent OR (NEW.offerid is not
NULL and New.updated price is NULL)) THEN
                            update product set updated_price=(New.price-(((select
discount percentage from offer where offerid = New.offerid) * New.price)/100))
where prodid=NEW.prodid;
                     END IF;
              ELSEIF (TG_OP = 'UPDATE') THEN
                     raise notice 'bf cond';
                     IF (NEW.offerid is NULL And New.updated_price is not NULL)
THEN
                     raise notice 'af cond';
                            update product set updated_price=NULL where
prodid=NEW.prodid;
```

# GROUP-14 ONLINE GROCERY STORE MANAGEMENT SYSTEM

ELSEIF (new.updated\_price!=perccent OR (NEW.offerid is not NULL and New.updated\_price is NULL)) THEN

raise notice 'af cond';

update product set updated\_price=(New.price-(((select discount\_percentage from offer where offerid = New.offerid) \* New.price)/100))
where prodid=NEW.prodid;

END IF;

END IF;

RETURN New;

END;

\$\$ LANGUAGE plpgsql;

FOR EACH ROW EXECUTE PROCEDURE price\_update();

CREATE TRIGGER UP\_PRICE

AFTER INSERT OR UPDATE ON product

# 2. Count total amount for invoice

```
set search_path to gms14;
      create or replace function count_ttlamount()
              returns trigger as $$
              DECLARE
                     ttlprice integer;
              begin
              set search_path to gms14;
                     select sum((CASE WHEN updated_price is NULL then price else
      updated_price end) * qty) into ttlprice from product p JOIN order_includes o
      ON(o.prodid=p.prodid) join tblorder t on (o.orderid=t.orderid) where t.orderid =
       new.orderid group by t.orderid order by t.orderid;
                     new.total_amt := ttlprice;
              return new;
              END;
      $$ LANGUAGE plpgsql;
      CREATE TRIGGER count_ttlamount
       before INSERT or UPDATE ON invoice
              FOR EACH ROW EXECUTE PROCEDURE count_ttlamount();
3. Remove offer after expire
      set search_path to gms14;
      create or replace function updateoffer()
              return integer
              as $$
              begin
              update product set offerid=null where offerid in (select offerid from offer
      where CURRENT_DATE not between startdate and enddate );
              END;
      $$ LANGUAGE plpgsql;
```

# **QUERIES:**

# 1. Display the total number of branches handled by all the distributors.

select d.distributorid, d.name, count(branchid) as total\_branch

from branch b

JOIN distributor d

ON(d.distributorid=b.distributorid)

group by d.distributorid;

4	distributorid [PK] character varying (4)	name character varying (20)	total_branch bigint
1	d102	Sunny Singh	1
2	d104	Haresh Patel	3
3	d101	Janak Raj	4
4	d103	Pramod Mathur	2

# **GROUP-14 ONLINE GROCERY STORE MANAGEMENT SYSTEM**

# 2. Display the detail of branch which receive rating less than 6 more than 2 times.

select b.\*, count(b.branchid)

from branch b

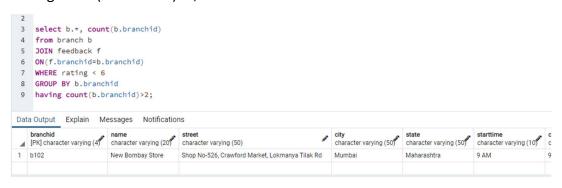
JOIN feedback f

ON(f.branchid=b.branchid)

WHERE rating < 6

GROUP BY b.branchid

having count(b.branchid)>2;



# 3. Calculate the total price of all the products saved in the cart of all the customers.

select customerid, sum(amt) as total\_assumed\_bill

from (select c.customerid, sum(p.updated\_price \* qty) as amt

from product p

JOIN cart c

ON(c.productid=p.prodid)

WHERE p.offerid!='null'

**GROUP BY customerid** 

UNION

select c.customerid, sum(p.price \* qty) as amt

from product p

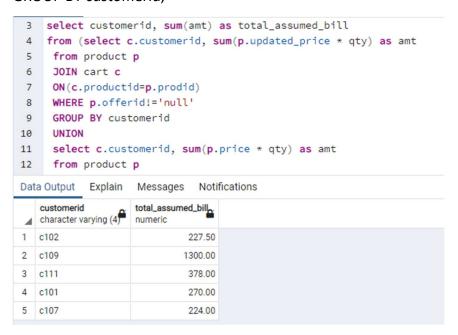
JOIN cart c

ON(c.productid=p.prodid)

WHERE p.offerid is NULL

GROUP BY customerid) r

# **GROUP BY customerid;**



# 4. List product details of top 3 most sold product based on quantity.

```
select p.* from product p
join order_includes o
on p.prodid=o.prodid
group by p.prodid
order by sum(o.qty)
```

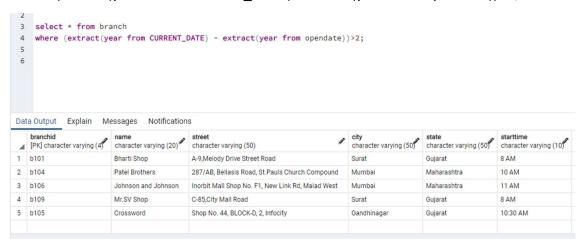
# DESC limit 3;



# 5. Display the detail of all the branch which opened before 2 year.

select \* from branch

where (extract(year from CURRENT DATE) - extract(year from opendate))>2;



# 6. Count the product saved in the cart of customer named 'Aditi Ghosh' which are no longer active.

select count(\*) as total\_inactive\_product

from product p

JOIN cart c

ON(c.productid=p.prodid)

JOIN customer cs

ON(cs.customerid=c.customerid)

WHERE p.status='false' AND cs.name='Aditi Ghosh';

# 7. Count product for all the offers.

9

8 Apple

bno106

```
Select qty left, p.name, br.batchno, b.name, bt.arrival date time, bs.period scale
from batch stock detail bs
join stock contains sc
on sc.stockid=bs.stockid
join product p
on p.prodid=sc.prodid
join batch receives br
on bs.batchno=br.batchno
join branch b
on b.branchid=br.branchid
join batch bt
on bt.batchno=br.batchno
where (period scale is null
          and (to_date(concat('01',' ',split_part(best_before_period,' ',1),'
',split_part(best_before_period,' ',2)),'DD mon yyyy')<current_date))
          or cast(split part(cast((current date-bt.arrival date time) as varchar),
',1)as integer)>cast(split_part(period_scale,' ',1)as integer);
    2 Select qty_left, p.name, br.batchno, b.name, bt.arrival_date_time, bs.period_scale
    3 from batch_stock_detail bs
    4 join stock_contains sc
    5 on sc.stockid=bs.stockid
    6 join product p
    7 on p.prodid=sc.prodid
   Data Output Explain Messages Notifications
       qty_left_integer name character varying (20)
                                batchno
                                                                  arrival_date_time
                                                                                         period_scale
                                character varying (6)
                                                character varying (20) €
                                                                  timestamp without time zone
                                                                                         character varying (20)
    1
                                bno101
                                                Novelty Store
                                                                  2020-03-22 19:10:25
                                                                                         3 days
           10 Apple
           10 Apple
                                bno101
                                                my shop
                                                                  2020-03-22 19:10:25
                                                                                         3 days
    3
           10 Apple
                                bno101
                                                Johnson and Johnson
                                                                  2020-03-22 19:10:25
                                                                                         3 days
    4
                                                                  2020-03-22 19:10:25
                                                                                        3 days
           10 Apple
                                bno101
                                                Crossword
                                                                  2020-03-22 19:10:25
           10 Apple
                                bno101
                                                Student Stationery
                                                                                        3 days
                                                                  2020-03-22 19:10:25
           10 Apple
                                bno101
                                                Bharti Shop
                                                                                         3 days
    7
           10 Butter
                                bno103
                                                Novelty Store
                                                                  2020-03-20 09:45:29
                                                                                         [null]
                                                                  2021-04-07 05:19:54
    8
           36 Rice
                                bno105
                                                New Bombay Store
                                                                                         [null]
```

Lifestyle Stores

2020-08-15 12:26:14

10 days

# 8. Display the detail of customer who paid total amount more than average of all the invoice total amount.

select c.\*

from customer c

JOIN tblorder o

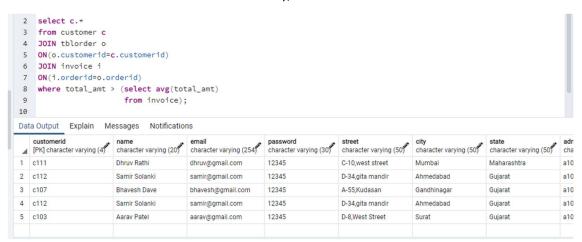
ON(o.customerid=c.customerid)

JOIN invoice i

ON(i.orderid=o.orderid)

where total\_amt > (select avg(total\_amt)

# from invoice);



# 9. Count the no. of customer for all the product which were saved in their cart.

select p.prodid, count(customerid) as total\_customer

from product p

JOIN cart c

ON(c.productid=p.prodid)

group by p.prodid;

```
2 select p.prodid, count(customerid) as total_customer
3 from product p
4 JOIN cart c
5 ON(c.productid=p.prodid)
6 group by p.prodid;
7
8
9
10
Data Output
           Explain
                    Messages Notifications
                       total_customer_
   prodid
[PK] character varying (4)
                       bigint
1 p106
                                 1
2 p105
                                 1
3 p110
                                  1
4 p101
                                  2
5 p102
                                  1
```

# 10. Count total number of batch received by branch.

select branchid, count(\*) as total\_batch

from Batch\_Receives

group by branchid;

```
2 select branchid, count(*) as total_batch
3 from Batch_Receives
4 group by branchid;
5
6
7
8
9
10
Data Output Explain Messages
                            Notifications
                  total_batch_
   branchid
bigint
1 b104
                          1
2 b106
                          1
3 b108
                          2
4 b101
                          1
5 b103
                          1
6 b107
                          1
7 b102
                          1
                          1
8 b110
9 b105
                          1
```

# 11. Display the detail of branch which receive rating more than 7 where customer name is 'Akash Raval'.

select b.\*, count(b.branchid)

from branch b

JOIN feedback f

ON(f.branchid=b.branchid)

JOIN customer c

ON(c.customerid=f.customerid)

WHERE rating > 7 AND c.name = 'Akash Raval' GROUP BY b.branchid;



# 12. Total no. order placed by customer ID = c101 with status is completed.

select count(o.customerid) as Total\_order

from tblorder o

JOIN customer c

ON(c.customerid=o.customerid)

WHERE c.name like 'Aditi Ghosh' AND o.status='completed'

group by o.customerid;

```
2  select count(o.customerid) as Total_order
3  from tblorder o
4  JOIN customer c
5  ON(c.customerid=o.customerid)
6  WHERE c.name like 'Aditi Ghosh' AND o.status='completed'
7  group by o.customerid;
8  9
10

Data Output Explain Messages Notifications

total_order
bigint
1  1
```

# 13. Display the details of all the batch which were received in March 2020.

select \*

from batch

where extract(month from arrival\_date\_time) = '03' AND extract(year from arrival\_date\_time) = '2020';



# **GROUP-14 ONLINE GROCERY STORE MANAGEMENT SYSTEM**

# 14. Display all the detail of distributor who handled the branch which got rating = 4

select distinct d.\*

from branch b

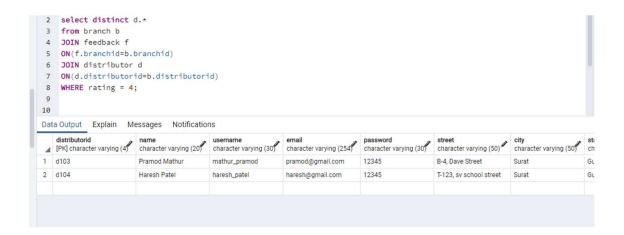
JOIN feedback f

ON(f.branchid=b.branchid)

JOIN distributor d

ON(d.distributorid=b.distributorid)

WHERE rating = 4;



# 15. Count total order which are pending for branch.

select branchid, count(orderid) as total\_pending\_order

from tblorder

where status='pending'

group by branchid;

```
2 select branchid, count(orderid) as total_pending_order
3 from tblorder
4 where status='pending'
5 group by branchid;
6
7
8
9
10
Data Output
            Explain
                   Messages
                                Notifications
                    total_pending_order_
   branchid

∠ character varying (4)

                    bigint
1
  b101
                                   1
                                   1
2 b103
3 b107
                                   1
```

# 16. Display the product detail saved in the cart of customerid 'c102' which has discount more than 8 percentage.

select p.\*

from product p

JOIN cart c

ON(c.productid=p.prodid)

JOIN offer o

ON(o.offerid=p.offerid)

WHERE discount percentage > 8 AND c.customerid = 'c102';



# 17. Display all branch detail with status inactive handled by distributorid d101.

select \* from branch

where distributorid = 'd101' AND status = 'false';

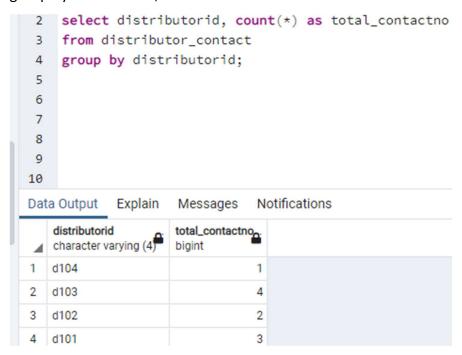


#### 18. Count total number of contact number of all the distributors.

select distributorid, count(\*) as total contactno

from distributor\_contact

group by distributorid;

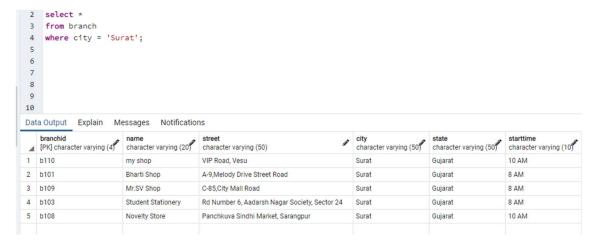


# 19. Display the detail of all the branch in city Surat.

select \*

from branch

where city = 'Surat';



# 20. Display detail of distributors which are active.

select \*

from distributor

where status = 'true';



# 21. Count the total no. of customer handled by all the admin.

select adminid, count(\*) as total\_customer

from customer

group by adminid;

```
select adminid, count(*) as total_customer
 3
    from customer
 4
    group by adminid;
 5
 6
 7
 8
 9
10
             Explain
                                   Notifications
Data Output
                      Messages
                      total_customer_
   adminid

    character varying (4)

                      bigint
1
   a102
                                  3
2 a104
                                  2
3 a105
                                  2
4
  a103
                                  4
   a101
                                  1
```

# 22. Display the details of order delivered at actual delivery date between '20-jan-2021' and '25-mar-2021'

select \* from tblorder

where actual\_delivery\_date > '20-jan-2021' AND actual\_delivery\_date < '25-mar-2021';



#### 23. Display the product detail on which there is discount more than 5 percentage.

select p.\*

from product p

JOIN offer o

ON(o.offerid=p.offerid)

where discount\_percentage > 5;



# 24. Display the detail of product name stating with 'B' and status 'active'.

select \*

from product

where name like 'B%' AND status ='true';



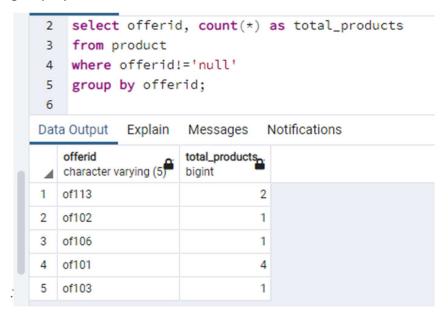
# 25. Count product for all the offers.

select offerid, count(\*) as total products

from product

where offerid!='null'

group by offerid;

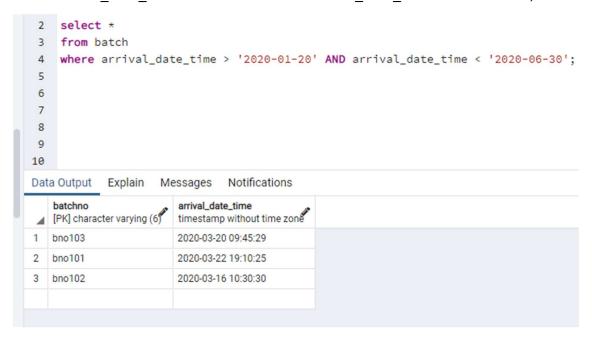


# 26. Display the details of all the batch which were received between 2020-06-20 to 2020-06-30

select \*

from batch

where arrival\_date\_time > '2020-01-20' AND arrival\_date\_time < '2020-06-30';



# **SUMMARY**

We have built an application that is user-friendly and can be accessed effortlessly. The firm's data includes distributors' data and information related to branches handled by them, and stock availability is collected. Customers can buy their needed products if available, and data related to their orders are stored. There are still some areas that have a future scope of development and can be implemented to improve the services provided by the system.