Queries:

1) Generate/calculate total amount including discount in invoice detail of given orderno.

```
UPDATE invoice_details SET total=

(select (t.s - (select membership_flag from "Order" natural join customer where
orderno=1)*(0.01)*t.s*(select distinct discount_percentage from order_details natural join
restaurant where orderno=1))

from (select orderno,sum(qty*rate) as s from order_details group by orderno) as t where orderno=1)

where orderno=1 ;
```

2) Give the restaurant details that deliver all the food items.

```
select * from restaurant natural join

(select distinct restaurantid from menu as m1 where NOT EXISTS (

        (select icode from item)

        except

        (select icode from menu as m2 where m2.restaurantid=m1.restaurantid)

) ) as r;
```

3) Give a Waiting list of restaurants for Given order no.

```
select distinct o.orderno from

"Order" as o natural join order_details as od

where od.restaurantid=(select distinct restaurantid from order_details as o where orderno=46) order
by o.orderno ;
```

4) Most valuable customer (customer id) in terms of purchase values, Customer that sums of maximum total amount.

```
select customerid,sum(total)as total from (invoice_details natural join "Order")as j GROUP by
j.customerid ORDER by total DESC LIMIT 1;
```

5) What is sale(sale=quantity*rate) of given item code in a particular restaurant.

```
select restaurantid,icode,sum(qty*rate) from order_details group by icode,restaurantid having
restaurantid=210 and icode=118;
```

6) Give famous item list(maximum orderwise) in a perticular city.

```
select icode,count(icode) from order_details

where restaurantid

IN(select restaurantid from restaurant where city='Ahmedabad') group by icode

order by count(icode) DESC ;
```

7) Compute ratings of restaurants based on customer reviews.

```
select r.restaurantid,1.00*sum(rating_to_restaurant)/count(rating_to_restaurant) as rrating from
(invoice_details natural join order_details) as r group by r.restaurantid;
```

8) Give all orders details of the given customer id.

```
select o.* from ("Order" natural join Order_Details) as o where customerid=306;
```

9) Give the restaurant name which has the lowest price for a given customer of the given item code for a particular city (using discount value).

```
select rname,( tt.price - (select membership_flag from customer where
customerid=306)*(0.01*tt.price*tt.discount_percentage) ) as final_price

From ( select rname,price,discount_percentage from (menu NATURAL join restaurant)as i

WHERE i.icode=104 AND i.city='Ahmedabad' ORDER by price ) as tt;
```

10) Give all delivery man details(id,name) who delivered more than 5 order.

```
select Did,count(OrderNo) from ("Order" natural join Delivery_Person) group by Did having
count(OrderNo)>5 Order by count(OrderNo) DESC;
```

11) Give the proportion of orders with respect to payment method.

```
select payment_method, count(payment_method)/( 1.0*(select count(invoiceno) from
invoice_details detail) )

from invoice_details  group by payment_method;
```

12) Give the restaurant list that is delivering a given item in a specific city.

```
select restaurantid,rname from (menu NATURAL join restaurant) where icode=104 AND
city='Ahmedabad';
```

13) Give menu of particular restuarant.

```
select iname,price from menu natural join item where restaurantid=202;
```

14) Give the famous restaurant (rating wise) details in a given city.

```
select * from

 (select r.restaurantid,1.00*sum(rating_to_restaurant)/count(rating_to_restaurant) as rating from
(invoice_details natural join order_details) as r group by r.restaurantid) as t

 natural join restaurant where city='Bhavnagar' order by t.rating DESC;
```

15) Give details of all canceled order.

```
select* from

 (select *from "Order" natural join Order_details natural join item) as r where r.delivery_status=0;
```