Database Management for Retail Application:-

Reports generated doing the analysis will contain the following:

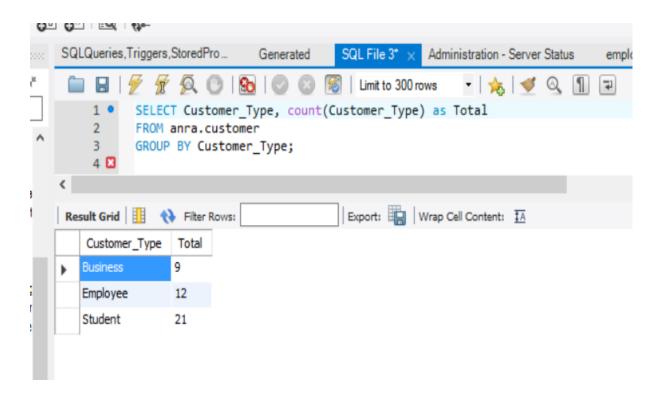
-- QUERIES:-

-- Query1 -- Find how many customers are there group by category?

SELECT Customer_Type, count(Customer_Type) as Total

FROM anra.customer

GROUP BY Customer_Type;



```
FROM anra.address
WHERE (Apartment_Name= 'Emerald' OR Zipcode_ID = '11003')
ORDER BY Zipcode_ID DESC
Limit 2;
--Query3 -- Find the supplied product count and their group for each product?
Select anra.supplier.Supplier_ID,anra.supplier.Supplier_Name,
Count(anra.product.Group_ID) AS `Product Count`, anra.`product
group`.Group_Name
From anra.supplier
inner join anra.product
on anra.supplier_ID=anra.product.Supplier_ID
inner join anra. 'product group'
on anra.product.Group_ID=anra.`product group`.Group_ID
Group by Supplier_ID Asc
--Query4 --Total number of orders to be shipped immediate and is partially Shipped?
SELECT Order_ID, Order_Date, `Status`, count(Order_ID) as Total
FROM anra.orders
WHERE (Shippent_Duration= 'Immediate' and 'Status'='Partially
                                                                Shipped')
ORDER BY Order_ID DESC;
```

--Query5-- List of products by department which has high defect%?

SELECT Address_ID, Apartment_Name, Zipcode_ID

```
SELECT anra.reviews.Product_ID,anra.product.Product_Name,
MAX(anra.reviews.`Defect%`) As `Defect%`, anra.`product group`.Group_Name
from anra.reviews
inner join anra.product
on anra.reviews.Product_ID=anra.product.Product_ID
inner join anra.'product group'
on anra.product.Group_ID=anra.`product group`.Group_ID
Group by `product group`.Group_ID
--Query6 - Total amount of revenue earned with respect to their purchasing modes?
Select count(Payment Mode) As Total Cutomers,
anra.payment.Payment_Mode,Sum(anra.bill.Amount_Paid)
As Total_Amount
from anra.payment
inner join
anra.bill
on anra.payment.Payment_ID=anra.bill.Payment_ID
group by Payment_Mode
--Query7 - Find The quantity of products available whose status is in progress and shipment duration is
immediate?
SELECT anra.product.Product_Name,anra.product.Available_Number,`order
product`.Quantity,orders.Order_Date, orders.`Status`,orders.Shippent_Duration
from anra.orders
inner join anra.'order product'
on anra.orders.Order_ID=anra.`order product`.Order_ID
inner join anra.product
on anra. `order product`.Product_ID=anra.product.Product_ID
```

```
where orders. 'Status'='In Progress' and orders. Shippent_Duration='Immediate';
--Query8 -- Find the names and defect% order by defect%?
SELECT Product_Name, `Defect%`
FROM anra.product
INNER JOIN anra.reviews
ON anra.reviews.Product_ID=anra.product.Product_ID
ORDER BY 'Defect%' Desc;
--Query9 -- Find Customers payment ID, mode, vocher applied and their visist number?
SELECT anra.bill.Voucher_id, anra.payment.Payment_ID, anra.payment.Payment_Mode,
anra.payment.Visit_Number
FROM anra.bill,anra.payment
WHERE anra.payment_Payment_ID=anra.bill.Payment_ID
AND anra.bill.Amount_Paid> 1000;
--Query10 -- Find product and their respective colour?
SELECT Product_Name, Colour
FROM anra. 'product details'
INNER JOIN anra.product
ON anra. product details Product_ID=anra.product.Product_ID order by colour
--Query11
--Find the product Names their respective groups?
SELECT
```

Group_Name, Product_Name

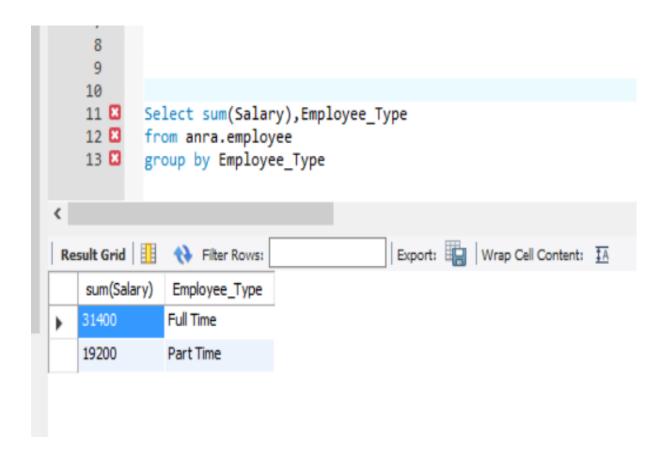
FROM anra. 'product group'

INNER JOIN anra.product

ON anra. product group Group_ID=anra.product.Group_ID Order by Group_Name

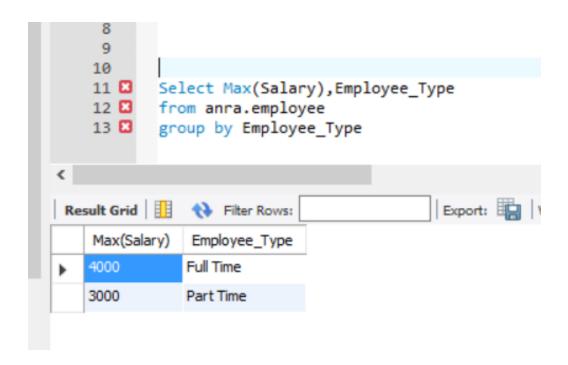
--Query12

--Find Total salaries payed to each employee type?



--Query13

--Find Maximum salaries payed to each employee type?



TRIGGERS

--Trigger1

--Find Customer name and updated time on customers table ?

create table

UpdateCustomerDetails

(Customer_id int, First_Name varchar(20), update_time Datetime)

delimiter \\

create trigger Update Customer Details_trigger

after update on customer

for each row

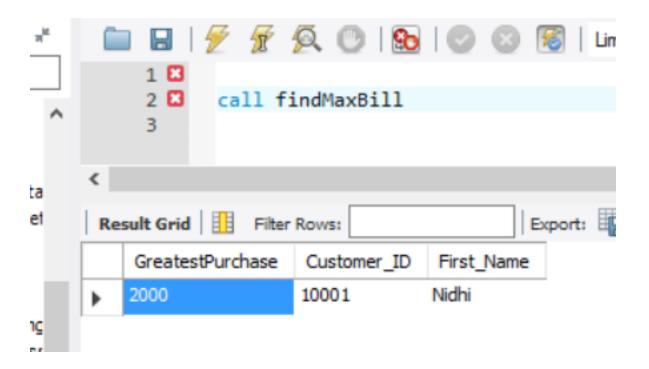
begin

declare new_date datetime;

```
set new_date=now();
insert into UpdateCustomerDetails(Customer_id,First_Name,update_time)
values(old.Customer_ID,old.First_Name, new_date);
end \\
--when customers details are updated the trigger is set
update customer set Email_Address='naynaa@gmail.com'
where Customer_ID=10000
--updates can be seen in the newly created table
select * from UpdateCustomerDetails
--Trigger2
--Find the newly changed colour for the product?
Create table
AddedProductColour
(Product_id char(5), Colour varchar(20))
delimiter \\
create trigger AddedProductColour_trigger
after update on anra. product details
for each row
begin
insert into AddedProductColour(Product_id, Colour )
values(old.Product_id,Colour);
end \\
```

--STORED_PROCEDURES

<u>--1--</u> Stored procedure to find customer details of highest Amount_Paid call findMaxBill()



delimiter//

Create Procedure findMaxBill()

Begin

select Max(anra.bill.Amount_Paid) As GreatestPurchase, anra.customer.Customer_ID,anra.customer.First_Name

from anra.bill

inner join anra.payment

on anra.payment_ID=anra.bill.Payment_ID

inner join anra.Customer

on anra.payment.Customer_ID=anra.customer.Customer_ID;

--VIEWS

<u>--1 -</u> Student as customer views create view StudentAsCustomer as (select * from customer where Customer_Type = 'Student') <u>--2</u> --Product details with minimum defect% and high rating create view LeastDefectHighRating as (select product_Product_Name, min(reviews.`Defect%`), max(reviews.Quality_Rating) from anra.reviews inner join anra.product on anra.reviews.Product_ID=anra.product.Product_ID) <u>--3</u> -- Products and the colours available create view ProductandAvailableColours as (SELECT Product_Name, Colour FROM anra.'product details' **INNER JOIN anra.product** ON anra. product details . Product_ID=anra.product.Product_ID order by colour)

<u>--4</u>

Distinct employee departments whose salary is greater than 1200 limit to 4.
create view DistinctEmployeeDepartments as
(Select DISTINCT anra.employee.Employee_Name,anra.employee.Department
From anra.employee
Where anra.employee.salary>1200 limit 4)
<u>5</u>
Create view TotalAmount as Total amount of revenue earned with respect to their purchasing modes.
create view as totalamount
(Select count(Payment_Mode) As Total_Cutomers,
anra.payment.Payment_Mode,Sum(anra.bill.Amount_Paid)
As Total_Amount
from anra.payment
inner join anra.bill
on anra.payment.Payment_ID=anra.bill.Payment_ID
group by Payment_Mode)
<u>6</u> Create view to know the employee designation and id and total number of customers monitored by each employee in descending order.

create view NumberOfCustomersMonitered as

(Select count(anra.customer.Customer_ID) as Total_Customers, anra.customer.Emploee_ID,anra.emploee.Designation

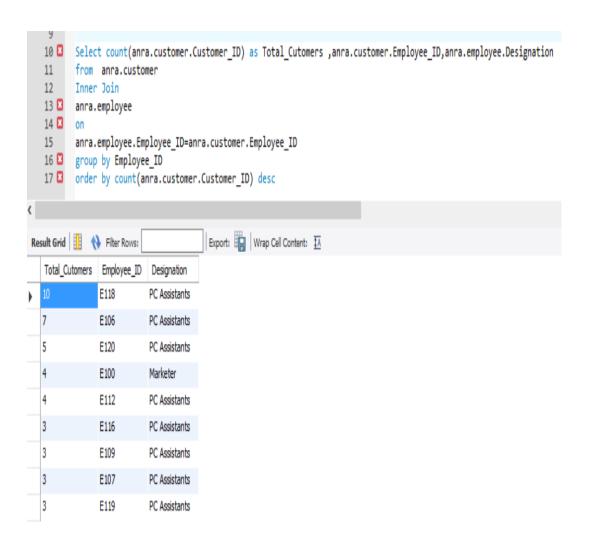
From anra.customer

Inner Join anra.employee

on anra.employee.Employee_ID=anra.customer.Employee_ID

group by Employee_ID

order by count(anra.customers.Customer_ID) desc)



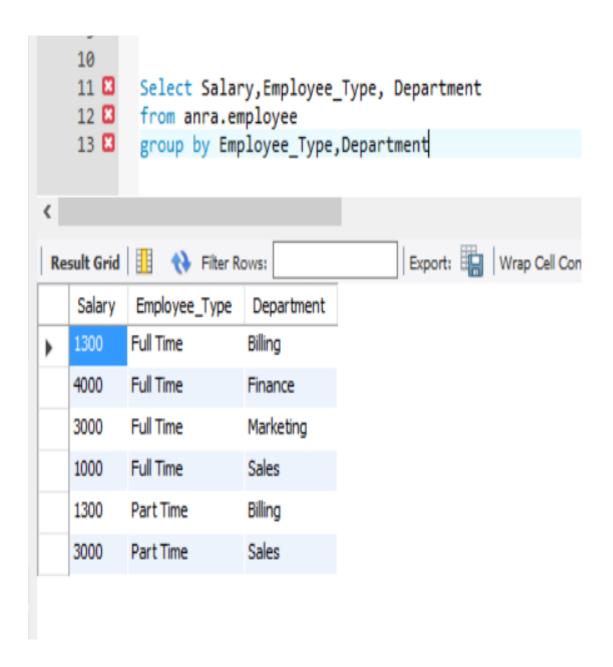
<u>--7--</u>View Salary of employee group by type and department.

create view SalaryGroupbyType as

(Select Salary, Employee_Type,Department

From anra.employee

Group by Employee_Type, Department)



<u>--8</u> -- Find The quantity of products available whose status is in progress and shipment duration is immediate

create view OrderStatusandAvailableQuantity as

(SELECT anra.product.Product_Name,anra.product.Available_Number,`order product`.Quantity,orders.Order_Date, orders.`Status`,orders.Shippent_Duration

from anra.orders

inner join anra. 'order product'

on anra.orders.Order_ID=anra.`order product`.Order_ID

inner join anra.product

on anra.'order product'.Product_ID=anra.product.Product_ID

where orders. 'Status'='In Progress' and orders. Shippent_Duration='Immediate')

