```
1-> List all detail of customers who have purchased maximum amount(rs) of clothes.
select c.*,a.address_id,a.address,a.customer_city,a.customer_state,a.pincode
from warehousemanagement.tbl_address as a join warehousemanagement.tbl_customer as c
on (a.customer contactno=c.customer contactno)
where a.address id=(
               select customer_addressid from (select sum(total_amount) as total_amount_of_orders, customer_addressid from
               warehousemanagement.tbl sales group by customer addressid) as sale
               where sale.total_amount_of_orders=(
                       select max(tbl_temp.total_amount_of_orders) from (
                       select sum(total amount) as total amount of orders, customer addressid from warehousemanagement.tbl sales group by
                       customer addressid
               ) as tbl_temp
  1 select c.*,a.address_id,a.address,a.customer_city,a.customer_state,a.pincode
  2 from warehousemanagement.tbl_address as a join warehousemanagement.tbl_customer as c
    on (a.customer_contactno=c.customer_contactno)
    where a.address_id=(
  5 select customer_addressid from (
  6 select sum(total_amount) as total_amount_of_orders, customer_addressid from warehousemanagement.t
     where sale.total amount of orders=(
  8 select max(tbl_temp.total_amount_of_orders) from (
  9 select sum(total_amount) as total_amount_of_orders, customer_addressid from warehousemanagement.t
 10 ) as tbl_temp
 11
 12 );
 Data Output Explain Messages
                                                                                                  customer_city
    customer_contactno
                     customer_fname
                                  customer_Iname
                                               customer_dob
                                                           customer_email
                                                                        address_id
                                                                                     address

▲ character (12)

                     character (50)
                                  character (50)
                                               date
                                                           character (30)
                                                                        character (10)
                                                                                     character (200)
                                                                                                  character (20)
  1 9725141478
                     Aayush
                                            ... 1992-05-10
                                                           aayush_sharma...
                                                                                     Bhatwadi
                                                                                                  Mumbai
```

->Algebra

(7) List all detail of customers who have purchased maximum amount (45) of clothes.	
(customer_addressid J SUM (total_amount) > total_amount_of_orders, customer_id (tbl_sales)) > tbl_temp (J MAX (total_amount_of_orders) (tbl_temp))> RESULT1	T C
T cus to mer_add ressid (sale. total_amount_of_orders = RESULT1) ->	a. pincode [a.address_id = RESULT2 [a Ma.customer_contactno.]
P (a, tbl. address) P (c, tbl. customer)	

```
2-> Fetch Sales Order of perticular Payment Methods.
SELECT s.*,pa.* FROM warehousemanagement.tbl_sales AS s
JOIN
       SELECT pay.sales id, pm.payment method FROM warehousemanagement.tbl sales payment AS pay
       JOIN warehousemanagement.tbl_paymentmethod AS pm
       ON (pay.paymentmethod_id = pm.paymentmethod_id)
) AS pa
ON (s.sales id = pa.sales id)
where payment method='Debit Cards';
     SELECT s.*,pa.* FROM warehousemanagement.tbl_sales AS s
  2
     JOIN
  3
      SELECT pay.sales_id, pm.payment_method FROM warehousemanagement.tbl_sales_payment AS pay
      JOIN warehousemanagement.tbl_paymentmethod AS pm
      ON (pay.paymentmethod_id = pm.paymentmethod_id)
      ) AS pa
  7
      ON (s.sales id = pa.sales id)
      where payment_method='Debit Cards';
                                 Notifications
 Data Output
             Explain
                      Messages
                       order_date
                                  sales_quantity
                                                 ship_date
                                                            unit_price
                                                                         sales_status
                                                                                        sales_discount
                                                                                                       total_amount
     sales_id
                                                                                                                    emp_contactn
  character (10)
                       date
                                                                                       numeric (10)
                                  numeric (10)
                                                 date
                                                            numeric (10)
                                                                         character (20)
                                                                                                       numeric (10)
                                                                                                                    character (12)
 1 s102
                       2019-01-02
                                             130 2019-01-05
                                                                    3000 Order Shipped
                                                                                                    0
                                                                                                             390000 9485685417
 2 s109
                       2019-01-13
                                              30 2019-01-23
                                                                    2300 Order Delivered
                                                                                                              69000 8485985417
 3 s110
                       2019-01-11
                                             120 2019-01-21
                                                                    2400 Order Delivered
                                                                                                   12
                                                                                                             253440 7485985418
```

100 2019-01-21

2050 Order Shipped

0

205000 8885985417

4 s111

2019-01-01

-> Algebra

	DATE	
(12)	2) Fetch Sales Order of particular Payment Methods.	1
	P (5, thl-sales)	
	p (5, thl-sales) p (pm, thl-payment method)	
	p (pay, tbl-sales-payment)	
2SIM	PEPa, (7 pay sales-id, pm. payment method (pay)	1
	(pay paymethod id = pm paymethod id)
290 VC	PLANCINA CONTRACTOR SUMMER CONTRACTOR OF THE PROPERTY OF THE P	
	Tpayment_method = 'Debit Card' (5 M (5. salesid = p.s	pat-

3-> Fetch total number of items sold by employee with it's details

SELECT e.*, sum(s.sales_quantity) as total_quantity_sold

FROM warehousemanagement.tbl_employee as e

JOIN warehousemanagement.tbl_sales as s

ON e.emp_contactno = s.emp_contactno GROUP BY e.emp_contactno;

->

```
SELECT e.*,sum(s.sales_quantity) as total_quantity_sold
FROM warehousemanagement.tbl_employee as e
JOIN warehousemanagement.tbl_sales as s
ON e.emp_contactno = s.emp_contactno GROUP BY e.emp_contactno;
```

4	emp_contactno character (12)	emp_name character (20)	emp_dob date	emp_gender character (2)	emp_hiredate date	emp_aadharno character (12)	department_id character (10)	total_quantity_sold numeric
1	7485985418	Sumant	1952-04-19	f	1985-02-18	123456789122	d007	120
2	7685985417	Patricio	1960-10-04	m	1992-12-18	123456789133	d006	70
3	8385985417	Kazuhide	1954-06-19	f	1987-04-03	123456789103	d002	56
4	7585985417	Eberhardt	1963-06-07	m	1985-10-20	123456789143	d008	215
5	7285985417	Kazuhito	1961-05-02	m	1995-01-27	123456789173	d003	16

->Algebra

Constant of the state of the st			PAGE NO. DATE
(19) Fetch	total no ob items	sold by empl	loyee with
(e X	p (e, tbl-employee p (s, tbl-sales) (e.emp-contactno=s.en	(s. the soles	
,	e.emp_contactno Is		

```
3-> Fetch total salary paid to an employee in each department
SELECT d.*, dept.total salary dept as total salary paid FROM warehousemanagement.tbl department as d
JOIN (
       SELECT sum(sal.total_salary_emp) as total_salary_dept, sal.department_id
       FROM(
              SELECT * FROM(
                     SELECT e.department id, sum(s.emp salary) as total salary emp
                     FROM warehousemanagement.tbl_employee as e
                     JOIN warehousemanagement.tbl_salary as s
                     ON e.emp_contactno = s.emp_contactno GROUP BY e.emp_contactno
              )AS sa
       )AS sal
       GROUP BY sal.department id
)AS dept
ON d.dept id=dept.department id
  1 SELECT d.*,dept.total_salary_dept as total_salary_paid FROM warehousemanagement.tbl_department as
  2
     JOIN (
     SELECT sum(sal.total_salary_emp) as total_salary_dept, sal.department_id
  4
      FROM (
      SELECT e.department_id,sum(s.emp_salary) as total_salary_emp
      FROM warehousemanagement.tbl_employee as e
      JOIN warehousemanagement.tbl_salary as s
      ON e.emp_contactno = s.emp_contactno GROUP BY e.emp_contactno
     )AS sal
      GROUP BY sal.department_id
     )AS dept
 12 ON d.dept_id=dept.department_id
 Data Output Explain Messages
                              Notifications
     dept_id
                 dept_name
                               manger_contact
                                            total_salary_paid

▲ character (5)

                 character (20)
                              character (12)
                                            numeric
  1 d005
                 Development
                              7485985417
                                                      142000
  2 d008
                 Research
                              7585985417
                                                      73000
```

225000

3 d004

Production

9485775417

->Algebra

Co	
(23	department.
hadba	1757 Fresh Durchage Enter of particular Thymanes
	p (d, tbl_department) p (e, tbl_employee)
7	p (s, tbl-salary)
	7 e. clepartment_id, e. emp_contactno 7 SUM s. emp_salary > total_salary_emp (e Me.emp_contactno = 5 s. emp_contactno
rd (L)salt	-> 5al
(and	71 sal, department_id J SUM sal, total_salary= emp → total_salary. dept (sal) → dept
	TT d. * , dept. total_salary_dept (d) [d.dept id = clept dept.department]

:::Triggers:::

```
1.
    CREATE TRIGGER purchase_trigger AFTER INSERT ON warehousemanagement.tbl_purchase
  2 FOR EACH ROW EXECUTE PROCEDURE add_quantity_func();
2.
     CREATE OR REPLACE FUNCTION add_quantity_func() RETURNS TRIGGER AS $purchase_trigger$
  2 ▼
        BEGIN
  3
           UPDATE warehousemanagement.tbl_product
  4
           set product_quantity=product_quantity+new.quantity
  5
           where product_id=new.product_id;
  6
  7
           RETURN NEW;
  8
  9
 10
        END:
    $purchase_trigger$ LANGUAGE plpgsql;
3.
     CREATE TRIGGER sale_trigger BEFORE INSERT ON warehousemanagement.tbl_sales
  2 FOR EACH ROW EXECUTE PROCEDURE subtract_quantity_func();
4.
     CREATE OR REPLACE FUNCTION subtract_quantity_func() RETURNS TRIGGER AS $sale_trigger$
         BEGIN
  2 ₹
  3
             UPDATE warehousemanagement.tbl_product
             SET product_quantity=product_quantity-NEW.sales_quantity
  5
             WHERE product_id=NEW.product_id;
  6
  7
  8
             RETURN NEW;
  9
 10
         END;
 11 $sale_trigger$ LANGUAGE plpgsql;
```