

Structured enquiry

Name : kavya jinnappa handigund

Roll no : 526

USN : 01fe21bcs131

Division : E(E1)

inventory management system

Consider the following set of requirements for inventory management system that is used to keep track of customers, orders, products, suppliers, and warehouse and invoice details. A customer can order any number of products. All suppliers are desired to supply a product to the customers. It is necessary to keep track of customer who orders a product so every customer is identified by a unique number. So as order and products. A customer can order a product which belongs to different categories; customer can order any number of products. Once a customer places his order, he will be generated with unique order number. With that order their exist a product. Every ordered product has invoice number mentioning the order number as well as product name. Products are delivered to the customer from warehouse through the supplier.

RELATIONAL SCHEMA

c_customers

<u>Cust_id</u>	Cust_name	gender	Phon_no	dob
----------------	-----------	--------	---------	-----

O_orders

<u>Ord_no</u>	orddate	qty	Ord_type	Sup_id	Cust_id
---------------	---------	-----	----------	--------	---------

products

<u>Prod_id</u>	Prod_name	price	Cust_id	Ware_code
----------------	-----------	-------	---------	-----------

Warehouse

<u>Ware_code</u>	Ware_man	loc
------------------	----------	-----

supplier

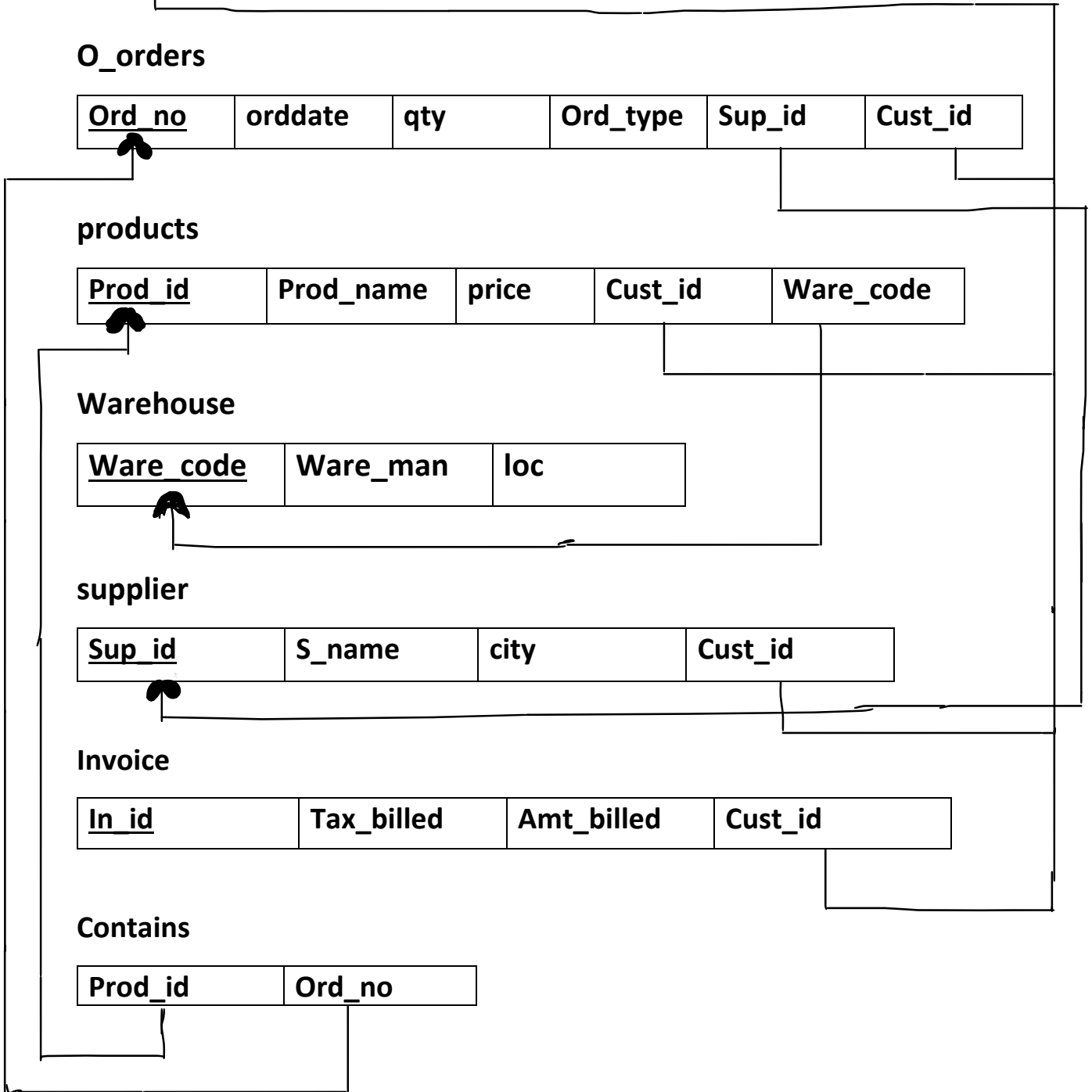
<u>Sup_id</u>	S_name	city	Cust_id
---------------	--------	------	---------

Invoice

<u>In_id</u>	Tax_billed	Amt_billed	Cust_id
--------------	------------	------------	---------

Contains

<u>Prod_id</u>	<u>Ord_no</u>
----------------	---------------



drop table c_customers

drop table o_orders

drop table product

drop table supplier

drop table invoice

drop table warehouse

drop table contains

create table c_customers

(
cust_id varchar(10) primary key,
cust_name char(25),
dob date,
gender char(10),
phon_no int
);

insert into **c_customers** values('c-101','nikita','18-mar-1990','female',4533436343);

insert into **c_customers** values('c-102','prakash','18-aug-1992','male',8296565389);

insert into **c_customers** values('c-103','bindu','5-jun-2001','female',9900480889);

insert into **c_customers** values('c-104','bharat','29-jan-2002','male',4534267578);

```
insert into c_customers values('c-105','dinesh','2-mar-1991','male',4598767865);
```

```
insert into c_customers values('c-106','dhanya','4-dec-1993','female',4598007865);
```

create table supplier

```
(  
s_id varchar(10) primary key,  
s_name char(10),  
city char(15),  
cust_id varchar(10) references c_customers(cust_id)  
);
```

```
insert into supplier values('s-530','dikshit','mumbai','c-105');
```

```
insert into supplier values('s-531','rakshit','belagavi','c-101');
```

```
insert into supplier values('s-532','manoj','dharwad','c-102');
```

```
insert into supplier values('s-533','sushant','hubli','c-101');
```

```
insert into supplier values('s-534','ravi','gokak','c-103');
```

create table o_orders

```
(  
ordno int primary key,  
orddate date,  
qty int,  
ordtype char(10),  
s_id varchar(10) references supplier(s_id),  
cust_id varchar(10) references c_customers(cust_id) );
```

insert into **o_orders** values(1001,'1-jan-2023',2,'purchase','s-532','c-101')

insert into **o_orders** values(1002,'2-dec-2022',4,'sale','s-531','c-102')

insert into **o_orders** values(1003,null,5,'sale','s-534','c-105')

insert into **o_orders** values(1004,'19-nov-2022',2,'purchase','s-530','c-101')

insert into **o_orders** values(1005,null,2,'sale','s-531','c-102')

create table products

```
(  
prod_id char(10) primary key,  
prod_name char(10),  
price int,  
cust_id varchar(10) references c_customers(cust_id),  
w_code varchar(10) references warehouse(w_code)  
);
```

insert into **products** values('p-296','detergents',50,'c-103','w-403');

insert into **products** values('p-273','toothpest',60,'c-106','w-401');

insert into **products** values('p-381','wheetpowd',70,'c-101','w-405');

insert into **products** values('p-890','knife',100,'c-105','w-401');

insert into **products** values('p-900','broom',150,'c-102','w-403');

create table warehouse

```
(  
w_code varchar(10) primary key,  
w_mang char(10),  
loc char(15)  
);  
insert into warehouse values('w-401','maruti','mangalor');  
insert into warehouse values('w-402','sagar','benglore');  
insert into warehouse values('w-403','nitin','mangalore');  
insert into warehouse values('w-404','manjula','mysore');  
insert into warehouse values('w-405','prasad','bengalor');
```

create table invoice

```
(  
in_id varchar(10) primary key,  
tax_billed varchar(10),  
amt_billed int,  
cust_id varchar(10)  
);  
insert into invoice values('i-1001','3',4000,'c-106');  
insert into invoice values('i-1002','4',5000,'c-101');  
insert into invoice values('i-1003','8',8000,'c-102');  
insert into invoice values('i-1004','9',20000,'c-106');  
insert into invoice values('i-1005','10',1200,'c-105');
```

create table contains

(
prod_id char(10) references products(prod_id),
ordno int references o_orders(ordno));

insert into **contains** values('p-900',1002);

insert into **contains** values('p-273',1001);

insert into **contains** values('p-381',1004);

insert into **contains** values('p-273',1003);

insert into **contains** values('p-900',1002);

select * from c_customers;

select * from products;

select * from o_orders;

select * from invoice;

select * from warehouse;

select * from supplier;

select * from contains;

insert into o_orders values(1006,null,4,'sale','s-530','c-101')

insert into o_orders values(1007,null,4,'purchase','s-530','c-102')

update o_orders set orddate='12-dec-2021' where ordno='1007';

update warehouse set loc='mangalore' where w_code='w-401';

update warehouse set loc='benglore' where w_code='w-405';

update products set cust_id='c-102' where prod_name='knife';

insert into products values('p-299','detergents',40,'c-102','w-403');

MULTIPLE JOIN OPERATIONS(5)----- -----

1)display the oder number,orderdate,quantity, and ordertype of the product whoes price is in between the 60 and 150 and indescriing order

```
select o.ordno,o.orddate,o.qty,o.ordtype,p.prod_id,p.price
from o_orders o, products p,contains c
where o.ordno=c.ordno and c.prod_id=p.prod_id
and p.price between 60 and 150
group by o.ordno,o.orddate,o.qty,o.ordtype,p.prod_id,p.price
order by price desc
```

ordno	orddate	qty	ordtype	Prod_id	price
1002	02-12-22	4	sale	p-900	150
1004	19-11-22	2	purchase	p-381	70
1001	01-01-23	2	purchase	p-273	60
1003	null	5	sale	p-273	60

2)display customer details group by based on the total invoice bill

```
select c.cust_name,c.cust_id,sum(tax_billed*amt_billed)
from invoice v,c_customers c
where v.cust_id=c.cust_id
group by c.cust_name,c.cust_id
order by c.cust_name;
```

cust_name	cust_id	sum(tax_billed*amt_billed)
dhanya	c-106	192000
dinesh	c-105	12000
nikita	c-101	20000
prakash	c-102	64000

3) display the customer details in increasing order of there product price

```
select c.cust_id,c.cust_name,p.price
from c_customers c,products p
where c.cust_id=p.cust_id
order by p.price
```

cust_id	cust_name	price
c-102	prakash	40
c-103	bindu	50
c-106	dhanya	60
c-101	nikita	70
c-102	prakash	100
c-102	prakash	150

4)display the product name and id of the product that are brought from mangalore warehouse and price greater than or equal to 100

```
select p.prod_name,p.prod_id,w.loc,p.price
from warehouse w,products p
where p.w_code=w.w_code and w.loc='mangalore'
and p.price>=100;
```

prod_name	prod_id	loc	price
knife	p-890	mangalore	100
broom	p-900	mangalore	150

5)display the details of the customer who ordered with in 10 days and ordtype is purchase

```
select c.cust_name,c.cust_id,o.ordtype
from c_customers c,o_orders o
```

where c.cust_id=o.cust_id and

sysdate-o.orddate<10 and o.ordtype like '%purchase%';

cust_name	cust_id	ordtype
nikita	c-101	purchase
nikita	c-101	purchase
prakash	c-102	purchase

USING GROUP BY AND HAVING CLAUSES(8)-----

1)to sum the product price of the each customer and sort it in decreasing order on

the sum of price and also display the name

of the customer

```
select p.cust_id,c.cust_name,sum(p.price)
```

```
from products p,c_customers c
```

```
where p.cust_id=c.cust_id
```

```
group by p.cust_id,c.cust_name
```

```
order by sum(p.price) desc;
```

cust_id	cust_name	sum(p.price)
c-102	prakash	290
c-101	nikita	70
c-106	dhanya	60
c-103	bindu	50

2) group th data by average invoice biled amount of each customer

```
select c.cust_id,c.cust_name,avg(v.amt_billed)
```

```
from invoice v,c_customers c
```

where v.cust_id=c.cust_id
group by c.cust_id,c.cust_name
order by avg(v.amt_billed);

cust_id	cust_name	avg(v.amt_billed)
c-105	dinesh	1200
c-101	nikita	5000
c-102	prakash	8000
c-106	dhanya	12000

3)to group order number by month of ordderdate

select to_char(orddate,'month')"month",sum(qty)"total qty"
from o_orders
group by to_char(orddate,'month');

month	total qty
null	11
december	8
january	2
november	2

4)to group the the data by avrage product price of the customer and display where average product priceis lass than 100

select p.cust_id,c.cust_name,avg(p.price)
from products p,c_customers c
where p.cust_id=c.cust_id
group by p.cust_id,c.cust_name
having avg(p.price)<=100
order by avg(p.price);

cust_id	cust_name	avg(p.price)
c-103	bindu	50
c-106	dhanya	60
c-101	nikita	70
c-102	prakash	96.667

5) display the details of the warehouse where product price is between the 1000 to 5000 and warehouse location is mangalore

```
select distinct w.w_code,w.w_mang,p.price,w.loc
from warehouse w,products p
where p.w_code=w.w_code and p.price between 10 and 100
and w.loc='mangalore'
group by w.w_code,w.w_mang,p.price,w.loc
```

w_code	w_mang	price	w.loc
w-401	maruti	100	mangalore
w-403	nitin	50	mangalore
w-401	maruti	60	mangalore
w-403	nitin	40	mangalore

6)display the customer id who has order the products and having quantity is greater than 3 and group by orddno

```
select cust_id,cust_name,gender
from c_customers
where cust_id in(select cust_id
from o_orders
where qty>=3
group by cust_id);
```

cust_id	cust_name	gender
c-101	nikita	female
c-102	prakash	male
c-105	dinesh	male

7)display the dtails of the supplier who live in mumbai and and supply the order sale an group by s_id

```
select *
from supplier
where s_id in (select o.s_id
               from o_orders o,supplier s
               where s.s_id=o.s_id and o.ordtype='sale' and s.city='mumbai'
               group by o.s_id);
```

s_id	s_name	city	c_id
s-530	dikshit	mumbai	c-105

8)display customer id of the cutomer whoes count is greater than 5 and ordat not null

```
select o.cust_id,c.cust_name,count(o.qty)
from o_orders o,c_customers c
where o.cust_id=c.cust_id and o.orddate is not null
group by o.cust_id,c.cust_name
having count(o.qty)>=2
```

cust_id	cust_name	count(o.qty)
c-102	prakash	2
c-101	nikita	2

NATURAL JOIN AND OUTER JOINS(LEFT AND RIGHT)AND SET THEORY OPERATORS(10)-----

1)display the details of customer and orders having qty greater than 3 using natural join

```
select cust_name,gender,phon_no,dob,orddate,qty
from c_customers
natural join o_orders o
where qty>=3;
```

cust_name	gender	phon_no	dob	orddate	qty
nikita	female	4533436343	18-03-90	null	4
prakash	male	8296565389	18-08-92	12-12-21	4
prakash	male	8296565389	18-08-92	02-12-22	4
dinesh	male	4598767865	02-03-91	null	5

2)display the supplier id of the supplier sushant or dikshit supplied to a particular orders and order based on order no

```
select s.s_id,s.s_name,o.ordno
from supplier s
left join o_orders o
on s.s_id=o.s_id
where s.s_name='dikshit' or s.s_name='sushant'
order by o.ordno
```

s_id	s_name	ordno
s-530	dikshit	1004
s-530	dikshit	1006
s-530	dikshit	1007
s-533	sushant	null

3)to find all the customers having orders with out duplicates

```
(select cust_id
from c_customers)
intersect
(select cust_id
from o_orders)
```

cust_id
c-101
c-102
c-105

4)to display all the supplier id who may supply order or not

```
(select s_id
from supplier)
union
(select s_id
from o_orders)
```

s_id
s-530
s-531
s-532
s-533
s-534

5)display the customer id who did not had invoice

```
(select cust_id
from c_customers)
minus
```

(select cust_id
from invoice)

cust_id
c-103
c-104

**6)display all the product d,product name price,and arehouse
manger where products are supplied from mangalore**

select p.prod_id,p.prod_name,w.w_mang,w.loc,w.w_code
from products p
full join warehouse w
on p.w_code=w.w_code
where w.loc='mangalore';

prod_id	prod_name	w_mang	loc	w_code
p-296	Detergents	nitin	mangalore	w-403
p-273	toothpest	maruti	mangalore	w-401
p-890	knife	maruti	mangalore	w-401
p-900	broom	nitin	mangalore	w-403
p-299	Detergents	nitin	mangalore	w-403

**7)display the all the customer who are brought their orders from a
peticular supplier**

select distinct c.cust_id,c.cust_name,s.s_id,s_name
from c_customers c
cross join supplier s;

cust_id	cust_name	s_id	s_name
----------------	------------------	-------------	---------------

c-103	bindu	s-530	dikshit
c-104	bharat	s-530	dikshit
c-101	nikita	s-531	rakshit
c-103	bindu	s-534	ravi
c-101	nikita	s-530	dikshit
c-102	prakash	s-530	dikshit
c-104	bharat	s-531	rakshit
c-101	nikita	s-532	manoj
c-105	dinesh	s-532	manoj
c-102	prakash	s-533	sushant
c-105	dinesh	s-533	sushant
c-101	nikita	s-534	ravi
c-106	dhanya	s-534	ravi
c-102	prakash	s-532	manoj
c-103	bindu	s-532	manoj
c-104	bharat	s-533	sushant
c-106	dhanya	s-531	rakshit
c-101	nikita	s-533	sushant
c-105	dinesh	s-530	dikshit
c-106	dhanya	s-530	dikshit
c-102	prakash	s-531	rakshit
c-103	bindu	s-531	rakshit
c-103	bindu	s-533	sushant
c-106	dhanya	s-533	sushant
c-104	bharat	s-534	ravi
c-105	dinesh	s-534	ravi
c-105	dinesh	s-531	rakshit
c-104	bharat	s-532	manoj
c-106	dhanya	s-532	manoj
c-102	prakash	s-534	ravi

8)(for self join) self join on table invoice

select b.in_id,a.amt_billed

from invoice a,invoice b

where b.amt_billed<a.amt_billed;

in_id	amt_billed
i-1005	4000
i-1001	5000
i-1005	5000
i-1001	8000
i-1002	8000
i-1005	8000
i-1001	20000
i-1002	20000
i-1003	20000
i-1005	20000

9)perform the right outer join opertion on the tables product and warehouse

select p.prod_id,p.prod_name,w.w_mang,w.loc

from products p

right join warehouse w

on p.w_code=w.w_code

prod_id	prod_name	w_mang	loc
p-296	detergents	nitin	mangalore
p-273	toothpest	maruti	mangalore
p-890	knife	maruti	mangalore
p-900	broom	nitin	mangalore
p-381	wheetpowd	prasad	benglore
p-299	detergents	nitin	mangalore
null	null	manjula	mysore

10)perform the inner join opertion on the tables orders and contains where qy must greater than 4 and oddate is null

select o.ordno,c.prod_id,o.orddate,o.ordtype,o.qty

from o_orders o

inner join contains c

on o.ordno=c.ordno

where qty<4 and orddate is not null

ordno	prod_id	orddate	ordtype	qty
1001	p-273	01-01-23	purchase	2
1004	p-381	19-11-22	purchase	2

DIFFERENT CLAUSES AND FUNCTIONS(5)-----

1)display the sum of total invoice amount of the invoicecr who having invoice amount greater than20000 and group by invoice id and in ascending order of there in_id

```
select in_id,sum(tax_billed*amt_billed)
from invoice
group by in_id
having sum(tax_billed*amt_billed)>=20000
order by in_id asc
```

in_id	sum(tax_billed*amt_billed)
i-1002	20000
i-1003	64000
i-1004	180000

2)display the number of quantity of orders orered by a customer name having letter h

```
select o.cust_id,c.cust_name,sum(qty)
from o_orders o,c_customers c
where c.cust_id=o.cust_id and c.cust_name like '%h%'
group by o.cust_id,c.cust_name
```

cust_id	cust_name	sum(qty)
c-102	prakash	10
c-105	dinesh	5

3)display the number of manager belongs to a perticular location at lest 2 managers work in same same loc and and loction consist name of letter lore

```
select loc,count(loc)
from warehouse
where loc like '%lore%'
group by loc
having count(loc)>=2;
```

loc	count(loc)
benglore	2
mangalore	2

4)display the sum an avarage price of the customer

```
select p.cust_id,c.cust_name,sum(p.price),avg(p.price)
from products p,c_customers c
where p.cust_id=c.cust_id
group by p.cust_id,c.cust_name
order by cust_id desc
```

p.cust_id	c.cust_name	sum(p.price)	avg(p.price)
c-106	dhanya	60	60
c-103	bindu	50	50
c-102	prakash	290	96.667
c-101	nikita	70	70

5)display maximum and minimum price of the invoice amount bill of perticular customer who having max price greater than 5000 and in price less than 8000

```
select v.cust_id, max(v.amt_billed),min(v.amt_billed)
from invoice v,c_customers c
where c.cust_id=v.cust_id
group by v.cust_id
having max(v.amt_billed) >=8000 and min(v.amt_billed)<=8000
```

v.cust_id	max(v.amt_billed)	min(v.amt_billed)
c-102	8000	8000
c-106	20000	4000

VIEWS(SIMPLE AND COMPLEX VIEWS) (5)-----

1)create a view to store the products details which price greater han or equal to 100

```
create or replace view prod_price as
select price,prod_id,prod_name
from products
where price>=100
select * from prod_price
```

price	prod_id	prod_name
100	p-890	knife
150	p-900	broom

2)create a view to store the details of the customer whoes invoice price is Greater than 5000

```
create or replace view cust_invoice as
```

```

select v.in_id,v.amt_billed,v.cust_id,c.cust_name
from invoice v,c_customers c
where v.amt_billed>5000 and cust_name like '%d%';

select * from cust_invoice;

```

in_id	amt_billed	cust_id	cust_name
i-1003	8000	c-102	bindu
i-1003	8000	c-102	dinesh
i-1003	8000	c-102	dhanya
i-1004	20000	c-106	bindu
i-1004	20000	c-106	dinesh
i-1004	20000	c-106	dhanya

3)create a view to store the details of customer whoes order date is null and ordertype is sale qty=2

```

create or replace view cust_order as
select o.ordno,o.orddate,o.qty,o.ordtype,o.cust_id,c.cust_name
from o_orders o,c_customers c
where o.orddate is null and ordtype='sale' and qty='2'

select * from cust_order

```

ordno	orddate	o.qty	ordtype	cust_id	cust_name
1005	null	2	sale	c-102	nikita
1005	null	2	sale	c-102	prakash
1005	null	2	sale	c-102	bindu
1005	null	2	sale	c-102	bharat
1005	null	2	sale	c-102	dinesh
1005	null	2	sale	c-102	dhanya

4)create a view to store the avarage,sum,of the price and count of cust_no of the customer

```

create or replace view prod_cust(cust_id,avg_price,sum_price,c_cust_id)
as select cust_id,avg(price),sum(price),count(cust_id)
from products
group by cust_id
select * from prod_cust;

```

cust_id	avg(price)	sum(price)	count(cust_id)
c-102	96.7	290	3
c-103	50	50	1
c-106	60	60	1
c-101	70	70	1

5)create aview to store the number of warehouse are in benglore and mangalore

```

create or replace view w_warehouse(loc,c_loc)
as select loc,count(loc)
from warehouse
where loc='benglore' or loc='mangalore'
group by loc
select * from w_warehouse

```

loc	count(loc)
benglore	2
mangalore	2

SUB-QUERY (SINGLE ROW,MULTIPLE ROW AND COORELATED NESTED QUERY)(15)-----

1)to list the customer whoes product price is less than avg price

```

select *

```

```

from c_customers
where cust_id in(select cust_id
                  from products
                  where price<=(select avg(price) from products));

```

cust_id	cust_name	dob	gender	phon_no
c-101	nikita	18-03-90	female	4533436343
c-102	prakash	18-08-92	male	8296565389
c-103	bindu	05-06-01	female	9900480889
c-106	dhanya	04-12-93	female	4598007865

2)to list the warehuose which is in mangalore and having name maruti

```

select *
from warehouse
where w_code =(select w_code
                from warehouse
                where loc='mangalore' and w_mang='maruti');

```

w_code	w_mang	city
w-401	maruti	mangalore

3)to display all the customer and invoice details hoes invoice amt is less tha the amt_billed

```

select v.cust_id,c.cust_name,v.in_id,v.amt_billed
from c_customers c,invoice v
where c.cust_id=v.cust_id and v.amt_billed <any(select avg(amt_billed)
                                                from invoice);

```

cust_id	cust_name	in_id	amt_billed
c-106	dhanya	i-1001	4000
c-101	nikita	i-1002	5000
c-105	dinesh	i-1005	1200

4)display the details of the products that are ordered

```
select prod_id,prod_name ,price
from products
where prod_id in (select c.prod_id
                  from o_orders o,contains c
                  where o.ordno=c.ordno)
order by price;
```

prod_id	prod_name	price
p-273	toothpest	60
p-381	wheetpowd	70
p-900	broom	150

5)display the details of the customers whoes tatal invoice price greater than 50000

```
select cust_name,cust_id
from c_customers
where cust_id in
      (select cust_id
       from invoice
       group by cust_id
       having sum(tax_billed*amt_billed)>50000)
```

cust_name	cust_id
prakash	c-102
dhanya	c-106

6)display the product number which is sold for 2 highest price

```

select prod_id,prod_name,price
from products p1
where(1)=(select
        count(distinct price)
        from products p2
        where p2.price>p1.price);

```

prod_id	prod_name	price
p-890	knife	100

7)display details of the invoice which has 1 highest price

```

select in_id,tax_billed,amt_billed
from invoice v1
where(0)=(select
        count(distinct amt_billed)
        from invoice v2
        where v2.amt_billed>v1.amt_billed);

```

in_id	tax_billed	amt_billed
i-1004	9	20000

8)display the details of the customer who has been get products from a perticular supplier

```

select *
from c_customers
where cust_id in(select c.cust_id
        from c_customers c
        where exists (select s.cust_id

```

from supplier s
 where s.cust_id=c.cust_id));

cust_id	cust_name	dob	gender	phon_no
c-102	prakash	18-08-92	male	8296565389
c-101	nikita	18-03-90	female	4533436343
c-103	bindu	05-06-01	female	9900480889
c-105	dinesh	02-03-91	male	4598767865

9)display the details of the customrs the products are supplie from a perticular warehouse

select *
 from c_customers
 where cust_id in
 (select distinct p.cust_id
 from products p, warehouse w
 where p.w_code=w.w_code)

cust_id	cust_name	dob	gender	phon_no
c-102	prakash	18-08-92	male	8296565389
c-101	nikita	18-03-90	female	4533436343
c-103	bindu	05-06-01	female	9900480889
c-106	dhanya	04-12-93	female	4598007865

10)display the detais of the customers whoes qty is greater than the avarage of qty

select cust_id,cust_name,gender,phon_no
 from c_customers
 where cust_id in(select cust_id
 from o_orders
 where qty>(select avg(qty)
 from o_orders))

cust_id	cust_name	gender	phon_no
c-101	nikita	female	4533436343
c-102	prakash	male	8296565389
c-105	dinesh	male	4598767865

11)display the details of the orders who has been not get products from a perticular supplier and order date be null

```
select o.s_id,o.orddate,o.ordtype
from o_orders o
where o.orddate is null and exists (select s.s_id
                                   from supplier s
                                   where s.s_id=o.s_id)
```

s_id	orddate	ordtype
s-534	null	sale
s-531	null	sale
s-530	null	sale

12)display the details of the supplier those are recived ordered after 30 days and and qty must be less than 5

```
select *
from supplier
where s_id in(select s_id
               from o_orders
               where sysdate-orddate>30 and qty<=5);
```

select * from prod_cust

s_id	s_name	city	cust_id
s-530	dikshit	mumbai	c-105
s-531	rakshit	belagavi	c-101
s-532	manoj	dharwad	c-102

13)display the details of the customer by comapring view table prod_cust and customers having sum of price is grater than avg price

```
select
c.cust_id,c.cust_name,c.gender,c.phon_no,p.avg_price,p.sum_price
from c_customers c,prod_cust p
where p.cust_id=c.cust_id and c.cust_id in
        (select cust_id
        from prod_cust
        where sum_price>avg_price)
```

select * from cust_order

cust_id	cust_name	gender	phon_no	avg_price	sum_price
c-102	prakash	male	8296565389	96.67	290

14)display the details of the suppliers whoes order that is ordered by a customer dhanya by comparing view table cust_order

and ordertyp must be sale

select *

```

from supplier
where s_id in
    (select s_id
     from o_orders
     where ordno in
         (select ordno
          from cust_order
          where cust_name='dhanya' and ordtype='sale'));

```

s_id	s_name	city	cust_id
s-531	rakshit	belagavi	c-101

15)display invoice id invoice amount custmoerid and name who has 2 highest price from view cust_invoice

```

select in_id,amt_billed,cust_id,cust_name
from cust_invoice v1
where(1)=(select
    count(distinct amt_billed)
    from cust_invoice v2
    where v2.amt_billed>v1.amt_billed);

```

in_id	amt_billed	cust_id	cust_name
i-1003	8000	c-102	bindu
i-1003	8000	c-102	dinesh
i-1003	8000	c-102	dhanya