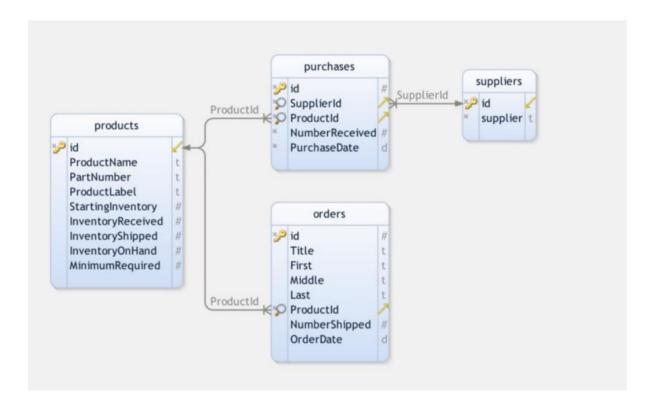
## PROJECT ON MYSQL



The aim of this project is to create an inventory system, refer to the diagram above to create your dh

The diagram shows the number of tables along with the relationship between tables. All the tables with respective columns are provided.

You are required to create the system with proper tables along with their relationship. You are also required to put in around dummy data inside the table so as to get some insights.

## INVENTORY\_SYSTEM

1)command to create a database for storing all above tables.

```
create database inventory_sys;
show databases;
use inventory_sys;
```

```
MySQL 8.0 Command Line Client
mysql> create database inventory_sys;
Query OK, 1 row affected (0.01 sec)
mysql> show databases;
Database
 empdb
  information_schema
  inventory_sys
  mysql
  performance_schema sakila
  shruti
  studentdb
  sys
 world
10 rows in set (0.00 sec)
mysql> use inventory_sys;
Database changed
```

## PRODUCTS TABLE

## 1)command to create products table.

create table products(

- -> id int,
- -> ProductName varchar(500),
- -> PartNumber varchar(500),
- -> ProductLabel varchar(500),
- -> StartingInventory int,
- -> InventoryReceived int,
- -> InventoryShipped int,
- -> InventoryOnHand int,
- -> MinimumRequired int,
- -> primary key(id)
- ->);

#### 2) command to describe products table.

desc products;

```
MvSQL 8.0 Command Line Client
nysql> create table products(
    -> id int,
-> ProductName varchar(500),
    -> PartNumber varchar(500)
    -> ProductLabel varchar(500),
    -> StartingInventory int,
    -> InventoryReceived int,
    -> InventoryShipped int,
       InventoryOnHand int,
    -> MinimumRequired int,
    -> primary key(id)
Query OK, 0 rows affected (0.08 sec)
mysql> desc products;
                                       | Null | Key | Default | Extra |
 Field
                      | Type
  id
                        int
                                         NO
                                                 PRI
                                                        NULL
                        varchar(500)
varchar(500)
varchar(500)
  ProductName
                                         YES
                                                        NULL
                                         YES
  PartNumber
                                                        NULL
                                         YES
  ProductLabel
                                                        NULL
                                         YES
  StartingInventory
                                                        NULL
                        int
                                         YES
  InventoryReceived
                        int
                                                        NULL
  InventoryShipped
                        int
                                         YES
                                                        NULL
  InventoryOnHand
                        int
  MinimumRequired
                                                        NULL
  rows in set (0.05 sec)
```

#### 3) command to insert records in products table.

## insert into

products(id,ProductName,PartNumber,ProductLabel,StartingInventory,InventoryReceived,InventoryShipped,InventoryOnHand,MinimumRequired)

- -> values(1,"Dell XPS","XPS 13","Dell XPS 13",5500,360,75,5785,25),
- -> (2,"LG Gram","Gram 14","LG Gram 14",4300,1270,900,4670,15),
- -> (3,"Dell Alienware","X15R2","Dell Alienware X15R2",200,987,83,1104,18),
- -> (4,"Samsung galaxy Book","Book2 360","Samsung galaxy Book2 360",385,2993,630,2748,88),
- -> (5,"Acer predator triton","triton 300","Acer predator triton 300",100,8758,7845,1013,71),
- -> (6,"Lenovo Thinkpad ","X1 fold","Lenovo Thinkpad X1 fold",673,223,61,835,12),
- -> (7,"Lenovo Ideapad","Gaming 3","Lenovo Ideapad Gaming 3",1,150,25,126,10),
- -> (8,"Apple MacBook","Pro 16","Apple MacBook Pro 16",25,135,177,-17,20),
- -> (9,"HP pavillion","Series 2014","HP pavillion Series 2014",25,0,0,25,10),
- -> (10,"Apple MackBook","Air(M2)","Apple MacBook Air(M2)",100,75,654,-479,20),
- -> (11,"Acer Aspire","5","Acer Aspire 5",75000,8907,7000,76907,72),
- -> (12,"Apple MacBook Pro","13","Apple MacBook Pro 13",50000,69524,79000,40524,80),
- -> (13,"Dell Precision","7770","Dell Precision 7770",5600,720,800,5520,21),

- -> (14,"HP DragonFly Folio","G3","HP DragonFly Folio G3",8500,900,952,8448,15),
- -> (15,"HP Victus","15","HP Victus 15",7200,840,799,7241,17),
- -> (16,"Acer Aspire Vero","v14","Acer Aspire Vero V14",780,9099,881,8998,29),
- -> (17,"HP ChromeBook","X360","HP ChromeBook X360",7204,9532,7951,8785,31),
- -> (18,"Apple MacBook Air","20","Apple MacBook Air 20",7600,820,766,7654,18),
- -> (19,"Dell","G15","Dell G15",630,860,7952,-6462,70),
- -> (20,"HP Spectre","X360","HP Spectre X360",954,862,952,864,95),
- -> (21,"HP Envy","16","HP Envy 16",683,960,90,1553,53),
- -> (22,"HP Pavillion Aero","13","HP Pavillion Aero 13",94,650,85,659,37),
- -> (23,"Acer TravelMate","P2","Acer TravelMate P2",652,952,956,648,26),
- -> (24,"Apple MacBook ","A127","Apple MacBook A127",7950,961,952,7959,36),
- -> (25,"Dell Latitude","5330","Dell Latitude 5330",95,895,98,892,39);

## 4) select statement to display all records from products table.

select \* from products;

		villion Aero 13",94,650,85,					
		avelMate P2",652,952,956,64 MacBook A127",7950,961,952,					
		titude 5330",95,895,98,892,					
OK, 5 rows affected (0							
s: 5 Duplicates: 0 W							
select * from product							
ProductName	PartNumber	ProductLabel	StartingInventory	InventoryReceived		InventoryOnHand	
Dell XPS	+   XPS 13	Dell XPS 13	5500	+   360	75	5785	++   25
LG Gram	Gram 14	LG Gram 14	4300	1270	900	4670	15
Dell Alienware	X15R2	Dell Alienware X15R2	200	987	83	1104	18
Samsung galaxy Book	Book2 360	Samsung galaxy Book2 360	385	2993	630	2748	88
Acer predator triton	triton 300	Acer predator triton 300	100	8758	7845	1013	71
Lenovo Thinkpad	X1 fold	Lenovo Thinkpad X1 fold	673	223	61	835	12
Lenovo Ideapad	Gaming 3	Lenovo Ideapad Gaming 3	1	150	25	126	10
Apple MacBook	Pro 16	Apple MacBook Pro 16	25	135	177		20
HP pavillion	Series 2014	HP pavillion Series 2014	25	9	0	25	10
Apple MackBook	Air(M2)	Apple MacBook Air(M2)	100	75	654	-479	20
Acer Aspire	5	Acer Aspire 5	75000	8907	7000	76907	72
Apple MacBook Pro	13	Apple MacBook Pro 13	50000	69524	79000	40524	89
Dell Precision	7770	Dell Precision 7770	5600	720	800	5520	21
HP DragonFly Folio	G3	HP DragonFly Folio G3	8500	900	952	8448	15
HP Victus	15	HP Victus 15	7200	840	799	7241	
Acer Aspire Vero	v14	Acer Aspire Vero V14	780	9099	881	8998	29
HP ChromeBook	X360	HP ChromeBook X360	7204	9532	7951	8785	31
Apple MacBook Air	20	Apple MacBook Air 20	7600	820	766	7654	18
Dell	G15	Dell G15	630	860	7952	-6462	70
HP Spectre	X360	HP Spectre X360	954	862	952	864	95
HP Envy	16	HP Envy 16	683	960	90	1553	53
HP Pavillion Aero	13	HP Pavillion Aero 13	94	650	85	659	
Acer TravelMate	P2	Acer TravelMate P2	652	952	956	648	26
Apple MacBook	A127	Apple MacBook A127	7950	961	952	7959	36
Dell Latitude	5330	Dell Latitude 5330	95	895	98	892	39

## SUPPLIERS TABLE

## 1)command to create suppliers table.

create table suppliers(

- -> id int,
- -> Supplier varchar(500),

```
-> primary key(id)
-> );
```

## 2)command to describe suppliers table.

desc suppliers;

```
mysql> create table suppliers(
    -> id int,
    -> Supplier varchar(500),
    -> primary key(id)
    -> );
Query OK, 0 rows affected (0.06 sec)

mysql> desc suppliers;

| Field | Type | Null | Key | Default | Extra |

| id | int | NO | PRI | NULL |
| Supplier | Varchar(500) | YES | NULL |
| 2 rows in set (0.00 sec)
```

## 3) command to insert records in suppliers table.

insert into suppliers(id, supplier)

```
-> values(1001,"Shockwave Tech"),
-> (1002,"Acme Tech"),
-> (1003,"CDW"),
-> (1004,"Diss computers"),
-> (1005,"Hi Tech Laptops"),
-> (1006,"Mindworx InfoTech"),
-> (1007,"Falcon systems");
```

## 4) select statement for displaying all records from suppliers table.

select \* from suppliers;

## **PURCHASES TABLE**

## 1)command to create purchases table.

create table purchases(

- -> id int,
- -> SupplierId int,
- -> ProductId int,
- -> NumberReceived int,
- -> PurchaseDate date,
- -> primary key(id),
- -> foreign key(SupplierId) references suppliers(id),
- -> foreign key(ProductId) references products(id)
- -> );

```
mysql> create table purchases(
   -> id int,
   -> SupplierId int,
   -> ProductId int,
   -> NumberReceived int,
   -> PurchaseDate date,
   -> primary key(id),
   -> foreign key(SupplierId) references suppliers(id),
   -> foreign key(ProductId) references products(id)
   -> );
Query OK, 0 rows affected (0.07 sec)
```

## 2)command to describe purchases table.

Desc purchases;

```
MySQL 8.0 Command Line Client
mysql> desc purchases;
 Field
                 | Type | Null | Key | Default | Extra |
 id
                                       NULL
                   int
                         NO
                                 PRI
  SupplierId
                          YES
                   int
                                 MUL
                                       NULL
                        YES YES
 ProductId
  NumberReceived
  PurchaseDate
                   date | YES
                                       NULL
 rows in set (0.00 sec)
```

## 3)command for insert records in purchases table.

insert into purchases(id,supplierId,ProductId,NumberReceived,PurchaseDate)

- -> values(101,1003,9,20,"2022-06-20"),
- -> (102,1003,9,30,"2022-06-30"),
- -> (103,1003,7,15,"2022-07-07"),
- -> (104,1001,6,10,"2022-07-13"),

```
-> (105,1001,5,18,"2022-07-28"),
-> (106,1002,5,20,"2022-08-02"),
-> (107,1002,1,25,"2022-8-13"),
-> (108,1004,14,4,"2002-08-15"),
-> (109,1005,14,26,"2022-08-16"),
-> (110,1003,16,14,"2022-06-13"),
-> (111,1004,10,2,"2022-08-11"),
-> (112,1006,19,13,"2022-07-02"),
-> (113,1006,20,15,"2022-08-03"),
-> (114,1007,20,10,"2022-09-01"),
-> (115,1005,21,16,"2022-06-04"),
-> (116,1007,21,22,"2022-07-17"),
-> (117,1002,10,20,"2022-06-23"),
-> (118,1004,25,21,"2022-07-25"),
-> (119,1003,25,30,"2022-08-28"),
-> (120,1006,16,33,"2022-06-08"),
-> (121,1005,7,22,"2022-05-03"),
-> (122,1005,7,10,"2022-05-16"),
-> (123,1006,6,11,"2022-08-29"),
-> (124,1003,5,44,"2022-09-08"),
-> (125,1005,7,27,"2022-05-23");
```

4) select statement for displaying all records from purchases table.

select \* from purchases;

## ORDERS TABLE

## 1)command to create orders table.

create table orders(

- -> id int,
- -> Title varchar(500),
- -> First varchar(500),
- -> Middle varchar(500),
- -> Last varchar(500),
- -> ProductId int,
- -> NumberShipped int,
- -> OrderDate date,
- -> primary key(id),
- -> foreign key(ProductId) references products(id)
- ->);

#### 2)command to describe orders table.

desc orders;

```
MySQL 8.0 Command Line Client
 ysql> create table orders(
         id int,
Title varchar(500),
First varchar(500),
Middle varchar(500),
Last varchar(500),
         ProductId int,
NumberShipped int,
         OrderDate date,
primary key(id),
foreign key(ProductId) references products(id)
Query OK, 0 rows affected (0.07 sec)
 nysql> desc orders;
  Field
                          Туре
                                                Null | Key
                                                                    Default | Extra
                          varchar(500)
varchar(500)
varchar(500)
                                                YES
YES
   Title
                                                                    NULL
                                                                    NULL
   First
   Middle
                                                                    NULL
                                                YES
YES
                          varchar(500)
   Last
                                                                    NULL
   ProductId
                                                           MUL
                                                 YES
YES
   NumberShipped
                                                                    NULL
  OrderDate
                          date
                                                                    NULL
  rows in set (0.00 sec)
```

#### 3) command for inserting records in orders table.

insert into orders(id,Title,First,Middle,Last,ProductId,NumberShipped,OrderDate)

```
-> values(10001,"Dell XPS 13","Ayush","Suresh","Shinde",1,2,"2022-08-15"),
-> (10002,"Dell XPS 13","Aarti","Ramesh","Jadhav",1,1,"2022-08-17"),
-> (10003,"Lenovo Ideapad Gaming 3","divya","Rajesh","agrawal",7,1,"2022-07-10"),
-> (10004,"Acer Predator Triton 300","Ritesh","Ramdev","Patil",5,2,"2022-07-24"),
-> (10005,"Lenovo Ideapad Gaming 3","Vanita","Ashok","Nipane",7,1,"2022-08-18"),
-> (10006,"Acer Predator Triton 300", "Shashank", "Dinesh", "Joshi", 5,2,"2022-07-20"),
-> (10007,"HP Pavillion Series 2014","Prachi","Rao","Desai",9,1,"2022-08-01"),
-> (10008,"Apple MacBook Air(M2)","aditi","santosh","sawant",10,3,"2022-08-09"),
-> (10009,"HP DragonFly Folio","sheetal","vilas","more",14,1,"2022-07-09"),
-> (10010,"HP DragonFly Folio","john","william","almedia",14,2,"2022-08-26"),
-> (10011,"Dell Latitude 5330","leander","bosco", "almedia",25,1,"2022-06-22"),
-> (10012,"HP Spectre X360","hitesh","sameer","patel",20,1,"2022-08-23"),
-> (10013,"HP Spectre X360","mukesh","jatin","gusai",20,1,"2022-05-06"),
-> (10014,"HP Envy 16","yash","rakesh","thakkar",21,1,"2022-06-22"),
-> (10015,"HP Envy 16","jyoti","vilas","salunkhe",21,1,"2022-06-24"),
-> (10016,"Dell G15","shravani","krishna","kadam",19,1,"2022-07-25"),
```

-> (10017,"Dell G15","harisha","lokesh","rajput",19,1,"2022-07-05"),

```
-> (10018,"Dell G15","seema","vishal","nipane",19,1,"2022-08-05"),
-> (10019,"Acer Aspire Vero","samiksha","santosh","shinde",16,3,"2022-05-25"),
-> (10020,"Acer Aspire Vero","rutuja","kishor","sawant",16,2,"2022-08-23"),
-> (10021,"Lenovo Thinkpad X1","natasha","ravi","birla",6,3,"2022-08-09"),
-> (10022,"Lenovo Thinkpad X1","tina","ratan","dabi",6,1,"2022-08-18"),
-> (10023,"Dell XPS 13","flowy","mario","corriea",1,1,"2022-06-08"),
-> (10024,"Dell XPS 13","ajinkya","daulat","gajare",1,2,"2022-07-29"),
-> (10025,"Acer Predator Triton","pranav","dheraj","joshi",5,1,"2022-06-16");
```

4) select statement to display all records from orders table.

select \* from orders;

```
MySQL 8.0 Command Line Client
   ysql: insert into orders(id,Title,First,Middle,Last,ProductId,NumberShipped,OrderDa'
-> values(10021,"Lenovo Thinkpad X1","natasha","ravi","birla",6,3,"2022-08-09"),
-> (10022,"Lenovo Thinkpad X1","tina","ratan","dabi",6,1,"2022-08-18"),
-> (10023,"Dell XPS 13","flowy","mario","corriea",1,1,"2022-06-08"),
-> (10024,"Dell XPS 13","ajinkya","daulat","gajare",1,2,"2022-07-29"),
-> (10025,"Acer Predator Triton","pranav","dheraj","joshi",5,1,"2022-06-16");
uery OK, 5 rows affected (0.00 sec)
ecords: 5 Duplicates: 0 Warnings: 0
                                                                                                                                                                                      | ProductId | NumberShipped | OrderDate
                                                                                                First
                                                                                                                              Middle
                                                                                                                                                        Last
                                                                                                    divya
Ritesh
Vanita
                                                                                                                                                             agrawal
Patil
Nipane
                                                                                                                                  Rajesh
                                                                                                                                  Ramdev
                                                                                                                                  Ashok
Dinesh
                                                                                                     Shashanl
                                                                                                                                                             Desai
                                                                                                                                  santosh
vilas
william
                                                                                                     aditi
sheetal
                                                                                                                                                             almedia
almedia
patel
                                                                                                     john
                                                                                                                                  bosco
sameer
jatin
                           Dell Latitude
                                                                                                                                                                                                              25
20
20
21
21
19
                                                                                                                                                              gusai
thakkar
                                                                                                     yash
jyoti
shravani
harisha
                                                                                                                                  rakesh
vilas
krishna
lokesh
                                                                                                                                                             salunkh
kadam
                                                                                                                                                             rajput
nipane
shinde
sawant
                                                                                                    seema
samiksha
rutuja
      10018
                          Dell G15
                                                                                                                                   vishal
                          Lenovo Thinkpad X1
Lenovo Thinkpad X1
Dell XPS 13
Dell XPS 13
                                                                                                                                  ravi
ratan
mario
daulat
                                                                                                     natasha
                                                                                                     tina
flowy
ajinkya
                                                                                                                                                             dabi
corriea
gajare
joshi
                                        Predator Triton
       rows in set (0.00 sec)
```

## FINDING INSIGHTS FROM ABOVE TABLES

## 1)USING JOINS:

1)fetch sum of inventory on hand of products which are more than 5000 and productname using aggregate function.

```
select ProductId,ProductName,sum(InventoryOnHand) from purchases inner join products
on products.id=purchases.ProductId
group by ProductId,ProductName
```

having sum(InventoryOnHand)>5000;

## 2)fetch products details which are from "HP" brand with its purchase date.

select ProductId, ProductName, PurchaseDate from products

```
inner join purchases
on products.id=purchases.ProductId
where ProductName like "HP%";
```

```
MySQL 8.0 Command Line Client
 ysql> select ProductId,ProductName,PurchaseDate from products
             inner join purchases
on products.id=purchases.ProductId
             where ProductName like "HP%";
  ProductId | ProductName
                                          PurchaseDate
            9 | HP pavillion
                                            2022-06-20
          9 | HP pavillion
9 | HP pavillion |
14 | HP DragonFly Folio |
14 | HP DragonFly Folio |
20 | HP Spectre
20 | HP Spectre
                                             2022-06-30
                                             2002-08-15
                                            2022-08-16
                                             2022-08-03
                                            2022-09-01
                 HP Envy
                                             2022-06-04
           21 | HP Envy
                                             2022-07-17
 rows in set (0.00 sec)
mysql>
```

# 3)fetch average of InventoryOnHand and productname of common products using aggregate function.

select ProductId, ProductName, avg(InventoryOnHand) from purchases

```
inner join products
on products.id=purchases.ProductId
group by ProductId,ProductName;
```

## 4)left join between products and purchases.

```
select ProductId,ProductName,PurchaseDate from products
left join purchases
on products.id=purchases.ProductId;
```

## 5)right join between products and purchases.

select ProductId,ProductName,PurchaseDate from products
right join purchases
on products.id=purchases.ProductId;

## 6) fetch product name along with purchases date between 2022-08-1 and 2022-08-30.

select ProductId, ProductName, PurchaseDate from products

inner join purchases

on products.id=purchases.ProductId

where PurchaseDate between "2022-08-01" and "2022-08-30";

```
MySQL 8.0 Command Line Client
 ysql> select ProductId,ProductName,PurchaseDate from products
         inner join purchases
           on products.id=purchases.ProductId
           where PurchaseDate between "2022-08-01" and "2022-08-30";
 ProductId | ProductName
                                  | PurchaseDate |
          5 | Acer predator triton | 2022-08-02
         1 Dell XPS
14 HP DragonFly Folio
10 Apple MackBook
20 HP Spectre
                                       2022-08-16
                                       2022-08-11
                                       2022-08-03
         25 | Dell Latitude
                                       2022-08-28
                                       2022-08-29
          6 | Lenovo Thinkpad
 rows in set (0.00 sec)
```

## 7) fetch products details which are having "Lenovo" brand.

select ProductId, ProductName from products

inner join purchases

on products.id=purchases.ProductId

group by ProductId

having ProductName like "Lenovo%";

## 8)fetch product details which has orderdate between 2022-07-01 and 2022-07-30.

select ProductId,First,ProductName,InventoryReceived from orders

inner join products

on orders.ProductId=products.id

where OrderDate between "2022-07-01" and "2022-07-30";

```
MySQL 8.0 Command Line Client
nysql> select ProductId,First,ProductName,InventoryReceived from orders
             inner join products
on orders.ProductId=products.id
where OrderDate between "2022-07-01" and "2022-07-30";
  ProductId | First
                              ProductName
                                                            | InventoryReceived |
                 divya
Ritesh
                               Lenovo Ideapad
                               Acer predator triton
Acer predator triton
HP DragonFly Folio
                                                                               8758
                                                                               8758
900
                 Shashank
                 sheetal
                               Dell
Dell XPS
                 shravani
                                                                                 860
           19
                 harisha
                                                                                860
                 ajinkya
                                                                                 360
  rows in set (0.00 sec)
ıysql> _
```

## 9)fetch product details where buyer name start with "s" alphabet and having buyer full name.

select ProductId,concat(First," ",Last),ProductName from orders

inner join products

on orders.ProductId=products.id

where first like "s%";

## 10) fetch products details where number of products shipped/delivered is more than or equal to 2.

select ProductId, ProductName, First from orders

inner join products on orders.ProductId=products.id group by ProductId,NumberShipped

having NumberShipped>=2;

```
mysql > select ProductId, ProductName, First from orders
-> inner join products
-> on orders. ProductId=products.id
-> group by ProductId, NumberShipped
-> having NumberShipped>=2;

| ProductId | ProductName | First |
| 1 | Dell XPS | Ayush |
| 5 | Acer predator triton | Ritesh |
| 10 | Apple MackBook | aditi |
| 14 | HP DragonFly Folio | john |
| 16 | Acer Aspire Vero | samiksha |
| 16 | Acer Aspire Vero | rutuja |
| 6 | Lenovo Thinkpad | natasha |

7 rows in set (0.00 sec)

mysql>
```

## 11) right join between products and orders fetching first 10 records.

select orders.id,ProductId,ProductName from products

left join orders
on orders.ProductId=products.id
order by ProductName asc

## limit 10;

## 12) right join between products and orders fetching first 5 records.

select orders.id,ProductId,ProductName,First from products

```
right join orders
on orders.ProductId=products.id
order by ProductName desc
```

limit 5;

```
MySQL 8.0 Command Line Client
 ysql> select orders.id,ProductId,ProductName,First from products
             right join orders
on orders.ProductId=products.id
             order by ProductName desc
limit 5;
  id | ProductId | ProductName
                      6 | Lenovo Thinkpad
6 | Lenovo Thinkpad
7 | Lenovo Ideapad
7 | Lenovo Ideapad
20 | HP Spectre
  10021
                                                      natasha
  10022
  10003
                                                      divya
  10005
                                                      Vanita
  10012
                                                      hitesh
  rows in set (0.00 sec)
 ysql>
```

## 13) fetch suppliers details where purchase date is between 2022-06-01 and 2022-06-30.

select suppliers.id, suppliers. supplier, Purchase Date from suppliers

inner join purchases

on suppliers.id=purchases.SupplierId

where PurchaseDate between "2022-06-01" and "2022-06-30";

## 14) fetch product details where suppliername is "cdw".

select suppliers.id, ProductName, supplier from products

inner join purchases

on products.id=purchases.ProductId

inner join suppliers

on purchases.SupplierId=suppliers.id

where supplier="cdw";

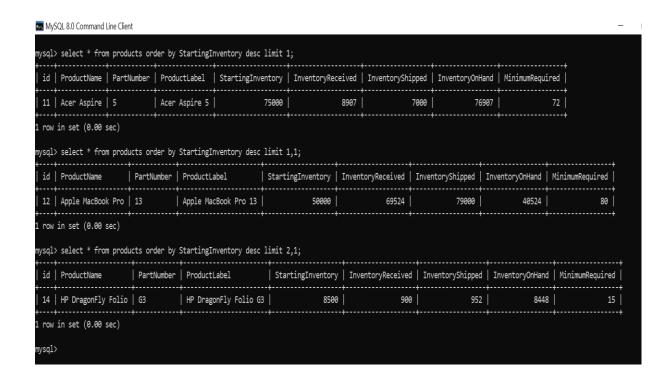
```
MySQL 8.0 Command Line Client
7 rows in set (0.00 sec)

mysql> select suppliers.id, ProductName, supplier from products
-> inner join purchases
-> on products.id=purchases.ProductId
-> inner join suppliers
-> on purchases.SupplierId=suppliers.id
-> where supplier="cdw";

| id | ProductName | supplier |
| 1003 | HP pavillion | CDW |
| 1003 | HP pavillion | CDW |
| 1003 | Acer Aspire Vero | CDW |
| 1003 | Acer Aspire Vero | CDW |
| 1003 | Acer Predator triton | CDW |
| 1003 | Acer Predator triton | CDW |
| 1003 | Acer Spire Vero | CDW |
| 1003 | Acer Predator triton | CDW |
| 1003 | Acer Spire Vero | CDW |
| 1003 | Acer Spire Vero | CDW |
| 1003 | Acer Spire Vero | CDW |
| 1003 | Acer Spire Vero | CDW |
| 1003 | Acer Spire Vero | CDW |
| 1003 | Acer Spire Vero | CDW |
| 1005 | Spire Vero | CDW |
| 1006 | Spire Vero | CDW |
| 1007 | Spire Vero | CDW |
| 1008 | Spire Vero | CDW |
| 1009 |
```

## 15) fetch first, second and third highest starting inventory.

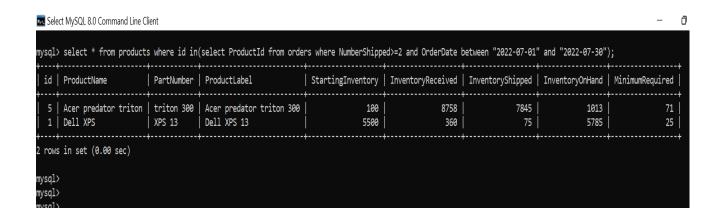
select \* from products order by StartingInventory desc limit 1; select \* from products order by StartingInventory desc limit 1,1; select \* from products order by StartingInventory desc limit 2,1;



## 2)USING SUBQURIES:

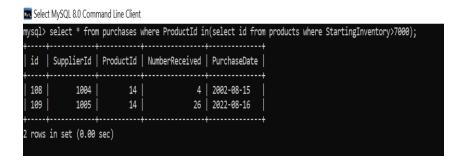
1)fetch products details where numbers of product shipped is more than or equal to 2 and orderdate is between 2022-07-01 and 2022-07-30.

select \* from products where id in(select ProductId from orders where NumberShipped>=2 and OrderDate between "2022-07-01" and "2022-07-30");



2)fetch purchases details where starting inventory of product is more than 7000.

select \* from purchases where ProductId in(select id from products where StartingInventory>7000);



## 3)fetch purchases details of products where productname is "HP pavillion" and "HP Envy".

select \* from purchases where ProductId in(select id from products where ProductName="HP pavillion" or ProductName="HP Envy");

```
ysql> select * from purchases where ProductId in(select id from products where ProductName="HP pavillion" or ProductName="HP Envy");
id | SupplierId | ProductId | NumberReceived | PurchaseDate |
                       9 |
9 |
                                    20 | 2022-06-20
101
           1003
                                   30 2022-06-30
           1003
102
           1005
115
                        21
                                     16 | 2022-06-04
116
                        21
                                       22 | 2022-07-17
rows in set (0.00 sec)
```

## 4)fetch purchases details of products where "Acme tech" is supplier of products.

select \* from purchases where SupplierId in(select id from suppliers where supplier="Acme tech");

```
mysql> select * from purchases where SupplierId in(select id from suppliers where supplier="Acme tech");

| id | SupplierId | ProductId | NumberReceived | PurchaseDate |

| 106 | 1002 | 5 | 20 | 2022-08-02 |

| 107 | 1002 | 1 | 25 | 2022-08-13 |

| 117 | 1002 | 10 | 20 | 2022-06-23 |

| 3 rows in set (0.00 sec)
```