**For Warehouse:-**

**CREATE DATABASE Warehouse;**

**For Sales order table:-**

* CREATE TABLE Sales\_Order ( Order\_no INT AUTO\_INCREMENT PRIMARY KEY, Total\_order\_qty INT, Customer\_number VARCHAR(50), Entry\_system\_date DATE, Request\_ship\_date DATE, Comments VARCHAR(50), Shipping\_address VARCHAR(100));
* INSERT INTO `sales\_order`(`Order\_no`, `Total\_order\_qty`, `Customer\_number`, `Entry\_system\_date`, `Request\_ship\_date`, `Comments`, `Shipping\_address`) VALUES (`001`,`15`,`c-101`,`2015/3/12`,`2015/3/20`,`-`,`71 Pilgrim Avenue Chevy Chase,USA 20815`)

**For Sales Details table:-**

* CREATE TABLE Sales\_Details ( Order\_no INT NOT NULL, Order\_line\_number INT,Order\_qty INT, Product\_code VARCHAR(50),Product\_description VARCHAR(50),Discount\_value VARCHAR(50) , Comments VARCHAR(50), FOREIGN KEY fk\_memb(Order\_no) REFERENCES sales\_order(Order\_no));
* INSERT INTO `sales\_details`(`Order\_no`, `Order\_line\_number`, `Order\_qty`, `Product\_code`, `Product\_description`, `Discount\_value`, `Comments`) VALUES ('1001','1','4','p-508','Granier shampoo 10.3OZ','1.2$','-')
* INSERT INTO `sales\_details`(`Order\_no`, `Order\_line\_number`, `Order\_qty`, `Product\_code`, `Product\_description`, `Discount\_value`, `Comments`) VALUES ('1001','2','6','p-511','Baby care oil 4 OZ','0.5$','-')
* INSERT INTO `sales\_details`(`Order\_no`, `Order\_line\_number`, `Order\_qty`, `Product\_code`, `Product\_description`, `Discount\_value`, `Comments`) VALUES ('1001','3','2','p-201','Baby food nestle 500gm','0.3$','-')
* INSERT INTO `sales\_details`(`Order\_no`, `Order\_line\_number`, `Order\_qty`, `Product\_code`, `Product\_description`, `Discount\_value`, `Comments`) VALUES ('1001','4','3','p-401','Loreal hair oil 12OZ','2$','-')

**For Dispatched table:-**

* CREATE TABLE Dispatched ( Order\_no INT NOT NULL, Order\_line\_number INT,Order\_qty INT, Qty\_approved INT, Unit\_price VARCHAR(50),Net\_sales\_value VARCHAR(50),Active\_flag VARCHAR(50) , Dispatched\_date DATE, FOREIGN KEY fk\_memb(Order\_no) REFERENCES sales\_order(Order\_no));
* INSERT INTO `dispatched`(`Order\_no`, `Order\_line\_number`, `Order\_qty`, `Qty\_approved`, `Unit\_price`, `Net\_sales\_value`, `Active\_flag`, `Dispatched\_date`) VALUES ('1001','1','4','3','7$','21$','T','2015/3/18')
* INSERT INTO `dispatched`(`Order\_no`, `Order\_line\_number`, `Order\_qty`, `Qty\_approved`, `Unit\_price`, `Net\_sales\_value`, `Active\_flag`, `Dispatched\_date`) VALUES ('1001','2','6','2','9$','18$','T','2015/3/18')
* INSERT INTO `dispatched`(`Order\_no`, `Order\_line\_number`, `Order\_qty`, `Qty\_approved`, `Unit\_price`, `Net\_sales\_value`, `Active\_flag`, `Dispatched\_date`) VALUES ('1001','3','2','2','20$','40$','T','2015/3/17')
* INSERT INTO `dispatched`(`Order\_no`, `Order\_line\_number`, `Order\_qty`, `Qty\_approved`, `Unit\_price`, `Net\_sales\_value`, `Active\_flag`, `Dispatched\_date`) VALUES ('1001','4','3','3','10$','30$','T','2015/3/15')

**For Customer Table:-**

* CREATE TABLE customer (Customer\_number VARCHAR(50), Customer\_name VARCHAR(50), Telephone VARCHAR(50), Email VARCHAR(50), Street VARCHAR(50), Zipcode INT, City VARCHAR(50), Country VARCHAR(50))
* INSERT INTO `customer`(`Customer\_number`, `Customer\_name`, `Telephone`, `Email`, `Street`, `Zipcode`, `City`, `Country`) VALUES ('C-101','Clair Doe','+4100006589','clair101D@yahoomail.com','71,Pilgrim Avenue','20815','Chevy Chase','USA')
* INSERT INTO `customer`(`Customer\_number`, `Customer\_name`, `Telephone`, `Email`, `Street`, `Zipcode`, `City`, `Country`) VALUES ('C-102','John Wick','+4100076589','JohnWick@yahoomail.com','5th Avenue','20818','Chicago','USA')
* INSERT INTO `customer`(`Customer\_number`, `Customer\_name`, `Telephone`, `Email`, `Street`, `Zipcode`, `City`, `Country`) VALUES ('C-103','Bruce Wayne','+4100076500','Bwayne@yahoomail.com','Wayne Mansion','20452','Gotham','USA')
* INSERT INTO `customer`(`Customer\_number`, `Customer\_name`, `Telephone`, `Email`, `Street`, `Zipcode`, `City`, `Country`) VALUES ('C-104','Clark Kent','+4100084500','Ckent@yahoomail.com','14,Daily Planet','20852','Metroplois','USA')
* INSERT INTO `customer`(`Customer\_number`, `Customer\_name`, `Telephone`, `Email`, `Street`, `Zipcode`, `City`, `Country`) VALUES ('C-105','Berry Allen','+4105084500','Barryaln@yahoomail.com','14,Jitters','20856','Central City','USA')
* INSERT INTO `customer`(`Customer\_number`, `Customer\_name`, `Telephone`, `Email`, `Street`, `Zipcode`, `City`, `Country`) VALUES ('C-106','Oliver Queen','+4105784500','Oqueen@yahoomail.com','Queen Mansion','20836','Star City','USA')
* INSERT INTO `customer`(`Customer\_number`, `Customer\_name`, `Telephone`, `Email`, `Street`, `Zipcode`, `City`, `Country`) VALUES ('C-107','Nick Klaus','+4101784500','Klaus@yahoomail.com','Michealson Quaters','20836','New Orleans','USA')

**Q1. Find the total sales order wise, having following details:  order no, customer name , total ordered qty, qty dispatched, total sales, dispatched date**.

**Ans.** SELECT Order\_no, customer.Customer\_name, total\_orderd\_qty, total\_sales, DATE\_FORMAT(dispatched\_date, '%d-%m-%Y') AS Dispatched\_date

FROM customer

INNER JOIN

(

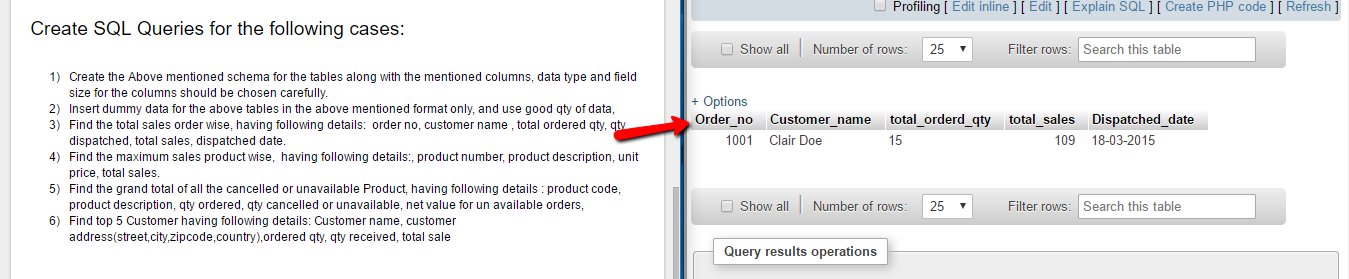
SELECT dispatched.Order\_no, sales\_order.Customer\_number, SUM(Order\_qty) As total\_orderd\_qty, SUM(Net\_sales\_value) As total\_sales, Max(Dispatched\_date) As dispatched\_date

FROM sales\_order

JOIN dispatched ON sales\_order.order\_no=dispatched.order\_no

GROUP BY order\_no

)As A ON A.Customer\_number=customer.Customer\_number



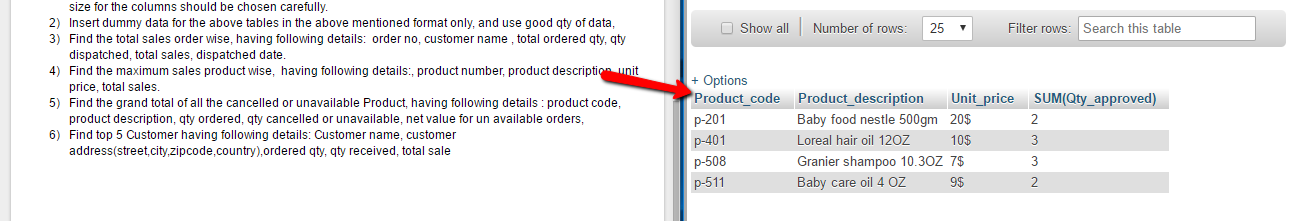
**Q2. Find the maximum sales product wise, having following details:, product number, product description, unit price, total sales.**

**Ans.** SELECT Product\_code, Product\_description, Unit\_price, SUM(Qty\_approved)

FROM dispatched

JOIN sales\_details ON dispatched.Order\_line\_number=sales\_details.Order\_line\_number

GROUP by product\_code, product\_description, unit\_price



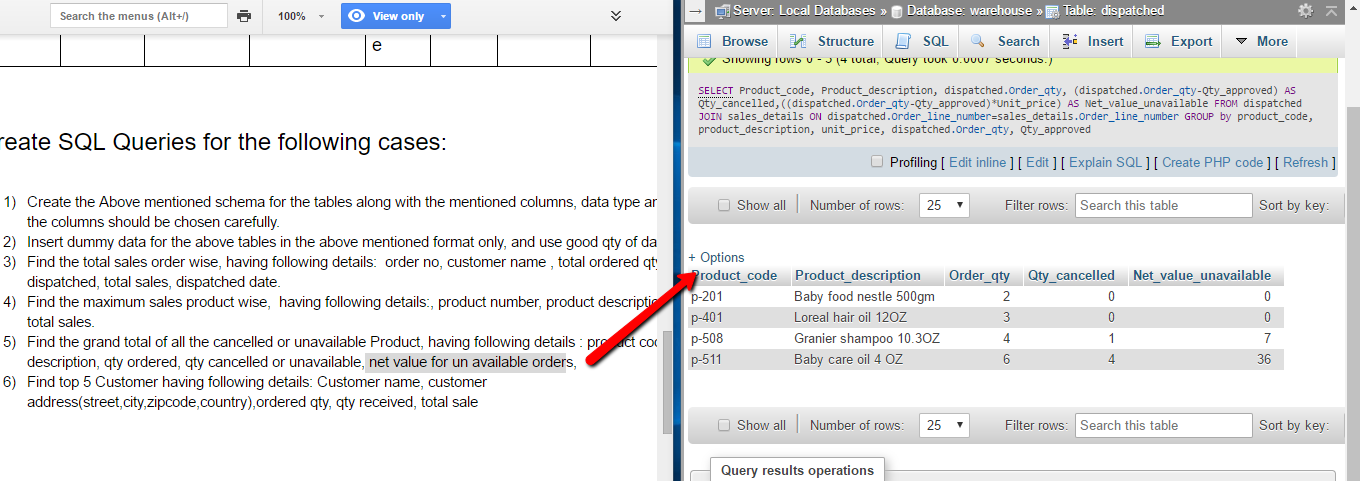
**Q3. Find the grand total of all the cancelled or unavailable Product, having following details : product code, product description, qty ordered, qty cancelled or unavailable, net value for un available orders,**

ANS. SELECT Product\_code, Product\_description, dispatched.Order\_qty, (dispatched.Order\_qty-Qty\_approved) AS Qty\_cancelled,((dispatched.Order\_qty-Qty\_approved)\*Unit\_price) AS Net\_value\_unavailable

FROM dispatched

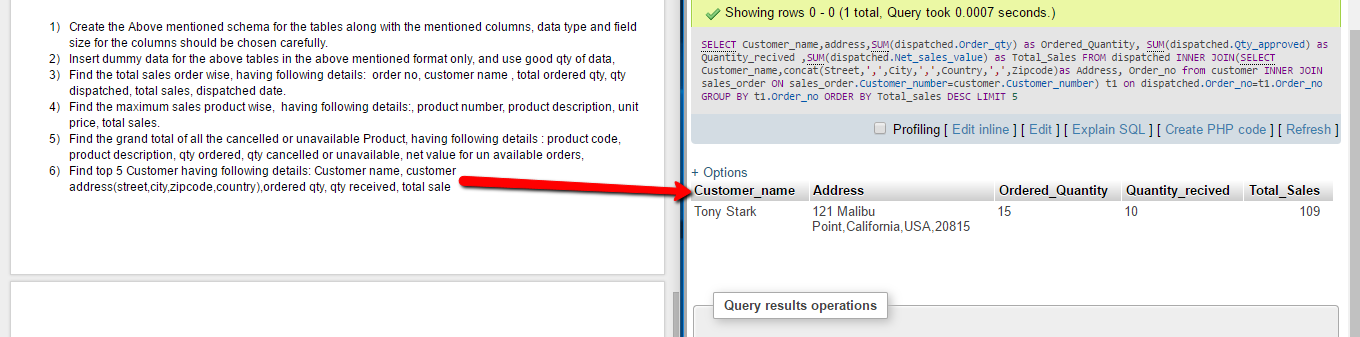
JOIN sales\_details ON dispatched.Order\_line\_number=sales\_details.Order\_line\_number

GROUP by product\_code, product\_description, unit\_price, dispatched.Order\_qty, Qty\_approved



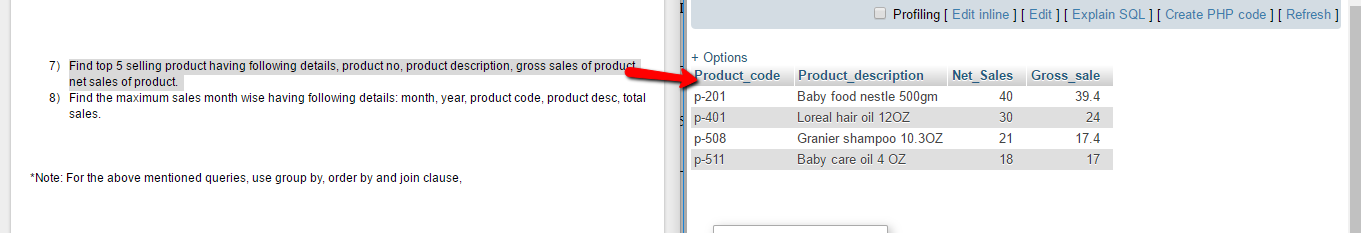
**Q4. Find top 5 Customer having following details: Customer name, customer address(street,city,zipcode,country),ordered qty, qty received, total sale**

**ANS.** SELECT Customer\_name,address,SUM(dispatched.Order\_qty) as Ordered\_Quantity, SUM(dispatched.Qty\_approved) as Quantity\_recived ,SUM(dispatched.Net\_sales\_value) as Total\_Sales FROM dispatched INNER JOIN(SELECT Customer\_name,concat(Street,',',City,',',Country,',ZIP-',Zipcode)as Address, Order\_no from customer INNER JOIN sales\_order ON sales\_order.Customer\_number=customer.Customer\_number) t1 on dispatched.Order\_no=t1.Order\_no GROUP BY t1.Order\_no ORDER BY Total\_sales DESC LIMIT 5



**Q5. Find top 5 selling product having following details, product no, product description, gross sales of product, net sales of product.**

**ANS.** SELECT Product\_code, Product\_description, sum(Net\_sales\_value) AS Net\_Sales,(sum(Qty\_approved)\*(Unit\_price-Discount\_value)) AS Gross\_sale from sales\_details INNER JOIN dispatched on sales\_details.Order\_qty= dispatched.Order\_qty GROUP BY Product\_code,Product\_description, Unit\_price,Discount\_value LIMIT 5



**Q6.** **Find the maximum sales month wise having following details: month, year, product code, product desc, total sales.**

**ANS.** SELECT sales\_details.Product\_code as product,sales\_details.Product\_description as decs,MONTH(dispatched.Dispatched\_date)MONTH, YEAR(Dispatched.Dispatched\_date)YEAR, SUM(dispatched.Net\_sales\_value)SALES from dispatched INNER JOIN sales\_details on dispatched.Order\_line\_number=sales\_details.Order\_line\_number GROUP BY product\_code)t1 GROUP BY Month

