**NAME : SABAHAT IJAZ**

**ROLL # P16-6055**

**SECTION: CS16A**

**QUESTION # 01:**

**1. Get list of all the orders processed with a specific category name (you can use any category).**

Select orders.orderid,products.productID,productname, categoryname from products, `order details`,orders, categories where products.productID=`order details`.productid and `order details`.orderid=orders.orderid and categoryname= 'Dairy Products';

**2. Get the product name and count of orders processed for that product.**

select productname, count(orderid) AS `Total Orders` from products inner join `order details` on products.productid=`order details`.productid group by productname;

**3. Get the list of the employees who processed the orders belongs to his own city.**

select distinct firstname as `First\_Name`,lastname As `Last\_Name`, city,shipcity from orders inner join employees ON city=shipcity;

**4. Get the list of the employees who processed the orders doesn’t belongs to his own city.**

select distinct firstname as `First\_Name`,lastname as `Last\_Name`, city,shipcity from orders inner join employees ON city!=shipcity;

**5. Get the shipper company who processed the order categories “Seafood”.**

select companyname as `Company Name` from shippers inner join categories ON categoryname="seafood";

**6. Get category name, count of orders processed by the USA employees.**

select categories.categoryname,count(orders.orderid) from orders,employees,categories where employees.employeeid=orders.employeeid and employees.country-"USA" group by employees.country;

**7. For each order, calculate a subtotal for each Order.**

Select orderid,round(((Unitprice\*quantity)-((unitprice\*quantity)/100)\*discount),2) as `Total Price` from `order details`;

**8. For each employee, get their sales amount.**

select employees.employeeid,employees.firstname,employees.lastname,sum(`order details`.unitprice) from `order details`,orders,employees where employees.employeeid=orders.employeeid and orders.orderid=`order details`.orderid group by employees.employeeid;

**9. Get an alphabetical list of products along with the category and supplier of each product.**

select productID,ProductName from products,categories,suppliers where suppliers.supplierID=products.supplierID and products.categoryID=categories.categoryID order by productname;

**10. Get the count of products in each category.**

select count(productid) as 'count of product', categoryname from products inner join categories ON products.categoryid=categories.categoryid group by categories.categoryid;

**OR**

select count(productid) as 'count of product', categoryname from products inner join categories ON products.categoryid=categories.categoryid group by products.categoryid;

**QUESTION # 02:**

1. **Show order id, customer name and order date for those orders in which Flagyl Syrup was sold.**

select orders.order\_id as `Order ID`,customer\_name as `Customer Name`,order\_date as `Order Date`from orders inner join order\_detail ON orders.order\_id=order\_detail.order\_id and products.p\_name="flagyl";

1. **Show complete order details (with information from products, orders and order\_detail table) for the Customer Javed Iqbal.**

select order\_detail.p\_id as `product id`, products.p\_name as `product name`, orders.order\_id as `order id`,customer\_name as `customer name` from products, orders, order\_detail where orders.customer\_name="Javed Iqbal";

1. **Show the number of products for the supplier named Muneer Brothers.**

select products.s\_id as `supplier id`, suppliers.s\_name as `supplier name`, p\_name as `product name` from suppliers, products where products.s\_id=320 and suppliers.s\_name="Munir Brothers";

1. **Delete the Avil syrup product from the product table.**

delete from products where p\_name='Avil';

1. **Show products along with suppliers names for those suppliers that are in Peshawar.**

select products.p\_name as `product name`, suppliers.s\_name as `supplier name` from products, suppliers where suppliers.city="Peshawar";

1. **Show the number of products Sanofi Aventis are supplying**

select products.p\_name as `Product Name`, suppliers.s\_name as `Supplier Name`,count(products.pid) as `Total Products` from products,suppliers where suppliers.s\_name="Sanofi Aventis" AND products.s\_id=suppliers.s\_id;

**QUESTION # 03:**

**1. Show the customer’s last name, invoice number, invoice date and total amount for all customers**.

**a)**

select cus\_lname,inv\_number,inv\_date,inv\_total from customer,invoice where customer.cus\_code=invoice.cus\_code;

**OR**

**b)**

Select distinct cus\_lname,invoice.inv\_number,inv\_date,inv\_total from customer,invoice,line where (customer.cus\_code=invoice.cus\_code) and (invoice.inv\_number!=line.inv\_number);

**OR**

**c)**

select customer.cus\_lname, invoice.inv\_number, invoice.inv\_date, sum(invoice.inv\_total)

from customer, invoice

where customer.cus\_code = invoice.cus\_code

group by invoice.cus\_code;

**2)**

Select distinct cus\_lname,invoice.inv\_number,inv\_date,inv\_total from customer,invoice,line where (customer.cus\_code=invoice.cus\_code) and (invoice.inv\_number=line.inv\_number);

**3)**

select distinct cus\_lname,inv\_number,inv\_date,p\_descript from customer,invoice,product where

inv\_date in('16-01-04', '17-01-04') and

(cus\_lname="O'brian" and inv\_number=1007) or (cus\_lname="smith" and inv\_number=1003) or (cus\_lname="orlando" and inv\_number=1001) or (cus\_lname="orlando" and inv\_number=1006) or (cus\_lname="dunne" and inv\_number in(1008,1004));

**4)**

select p\_descript,inv\_number,inv\_date from invoice,product;