## **EXAMEN BASE DE DATOS (SQL)**

1. select pl.productLine,count(p.productName) from productlines pl inner join products p on p.productLine=pl.productLine group by pl.productLine;

 select o.officeCode, o.city from offices o inner join employees e on o.officeCode=e.officeCode where(select count(e.firstName) from employees e) group by o.city order by o.officeCode desc limit 1;

3. select c.customerName,p.amount from customers c inner join payments p on c.customerNumber=p.customerNumber where p.amount>100000;

 select o.priceEach,p.productName,(p.buyPrice-o.priceEach) as 'Diferencia' from orderdetails o inner join products p on o.productCode=p.productCode order by o.priceEach asc limit 1;

```
mysql> select o.priceEach,p.productName,(p.buyPrice-o.priceEach) as 'Diferencia' from orderdetails o inner join products p on o.productCode=p.productCode order by o.priceEach asc limit 1;

| priceEach | productName | Diferencia |

| 26.55 | 1939 Chevrolet Deluxe Coupe | -3.98 |

1 row in set (0.02 sec)
```

5. select c.customerName,e.firstName from customers c inner join employees e on c.salesRepEmployeeNumber=e.employeeNumber;

6. select from orders inner join customers on o.customerNumber=c.customerNumber inner join employees е on c.salesRepEmployeeNumber=e.employeeNumber offices ofi inner on join

7. select (od.priceEach\*od.quantityOrdered) as 'Total' from orderdetails od inner join orders o on od.orderNumber=o.orderNumber where YEAR(o.orderDate)=2003;

 select (sum(o.orderNumber)) as 'Total\_Pedidos',MONTHNAME(o.orderDate) from orders o where YEAR(o.orderDate) between 2003 and 2005 and MONTHNAME(o.orderDate)in ('September','October','November','December') group by MONTHNAME(o.orderDate) order by MONTHNAME(o.orderDate);

```
mysql> select (sum(o.orderNumber)) as 'Total_Pedidos',MONTHNAME(o.orderDate) from orders o where YEAR(o.orderDate) between 2003 and 2005 and MONTHNAME(o.orderDate)in ('
September', 'October', 'November', 'December') group by MONTHNAME(o.orderDate) order by MONTHNAME(o.orderDate);

Total_Pedidos | MONTHNAME(o.orderDate) |

226442 | December |
646461 | November |
317335 | October |
204718 | September |
4 rows in set (0.00 sec)
```

 select e.lastName,sum(o.orderNumber) from employees e inner join customers c on e.employeeNumber=c.salesRepEmployeeNumber inner join orders o on c.customerNumber=o.customerNumber;

```
mysql> select e.lastName,sum(o.orderNumber) from employees e inner join customers c on e.employeeNumber=c.salesRepEmployeeNumber inner join orders o on c.customerNumber=c.salesRepEmployeeNumber inner join orders o on c.customerNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumber=c.salesRepEmployeeNumb
```

10. select (max(p.buyPrice)-min(p.buyPrice))\*1000 as 'Diferencia' from products p;

11. select e.firstName,e1.firstName from employees e inner join employees e1 on e.employeeNumber=e1.reportsTo;

```
mysql> select e.firstName,e1.firstName from employees e inner join employees e1 on e.employeeNumber=e1.reportsTo;
 firstName | firstName
              Mary
Jeff
 Diane
              William
 Mary
              Gerard
Anthony
 Anthony
              Leslie
Leslie
 Anthony
 Anthony
 Anthony
              Steve
Foon Yue
               George
 Gerard
               Loui
               Gerard
 Gerard
               Pamela
 Gerard
               Larry
 William
               Andy
               Peter
 William
              Mami
 Gerard
               Martin
  rows in set (0.00 sec)
```

12. alter table employees add column hiredate date;

update employees set hiredate='2020-01-01' where hiredate is null;

```
mysql> select hiredate from employees;
hiredate
2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
 2020-01-01
23 rows in set (0.00 sec)
```