1. Show the city and the postal code of the offices in Spain

```
SELECT DISTINCT ciudad,codigopostal

FROM oficinas

WHERE lower(PAIS)='spain'
```

2. Get the name and surname of the head of the company

```
SELECT concat(e1.NOMBRE,' ',e1.APELLIDO1,' ',e1.APELLIDO2) as nombre

FROM empleado e1

WHERE e1.codigoJefe is null
```

3. Show the name and title of employees who are not office managers

```
SELECT concat(e1.NOMBRE,' ',e1.APELLIDO1,' ',e1.APELLIDO2) as nombre,e1.puesto

FROM empleado e1

WHERE lower(e1.puesto)<>'director de oficina'
```

4. Shows the number of employees in the company

```
SELECT count(*)

FROM empleados
```

5. Shows the number of North American clients

```
SELECT count(*)

FROM clientes

WHERE lower(country)='united states'
```

6. Number of clients from each country

```
SELECT pais,count(*) as count

FROM clientes

GROUP BY pais

ORDER BY count DESC
```

7. Displays the customer's first name, last name, and the name of their sales representative (if any)

```
SELECT concat(c.nombrecontacto,' ',c.apellidocontacto),c.codigoempleadoreventas

FROM clientes c

INNER JOIN empleados e ON c.codigoempleadoreventas=e.codigoempleado
```

8. Name of customers who made a payment in 2007

```
SELECT c.nombrecliente
FROM clientes c
INNER JOIN pagos p ON p.codigocliente=c.codigocliente
WHERE year(date)=2007
WHERE date LIKE '%07'
```

9. The possible states of an order

```
SELECT DISTINCT lower(estado)
FROM pedidos
```

10. Displays the order number, customer name, delivery date, and required date of customers

```
SELECT p.codigopedido,c.nombrecliente,p.fechaentrega,p.fehcaesperada
FROM clientes c, pedidos p
WHERE c.codigocliente=p.codigocliente AND
P.fechaesperada<p.fechaentrega
```

11. Show the code, name and range of products that have never been ordered

```
SELECT p.codigoproducto,p.nombre,p.gama
FROM productos p
LEFT JOIN detallespedidos dp ON dp.codigoproducto=p.codigoproducto
WHERE dp.codigoproducto is null
```

12. Shows the name and surname of the employees who work in Barcelona

```
SELECT concat(e.nombre,' ',e.apellido1,' ',e.apellido2) as name
FROM empleados
INNER JOIN oficinas o ON o.codigooficina=e.codigooficina
WHERE trim(lower(o.region))='barcelona'
```

13. Shows the code and the number of times a product has been ordered at least once

```
SELECT p.codigoproducto,sum(dp.cantidad) as suma
FROM productos p
INNER JOIN detallesproductos dp ON dp.codigoproducto=p.codigoproducto
```

```
GROUP BY p.codigoproducto
```

14. Show the name of Miami customers who have placed an order

```
SELECT DISTINCT nombrecliente

FROM clientes

INNER JOIN pedidos p ON p.codigocliente=clientes.codigocliente

WHERE trim(lower(ciudad))='miami'
```

15. Show the final price of each order

```
SELECT p.codigopedido,SUM(dp .cantidad*dp.preciounidad) as final_price

FROM pedidos p

JOIN detallespedidos dp ON p.codigopedido=dp.codigopedido

GROUP BY p.codigopedido

ORDER BY final_price
```

16. Show what each customer has paid

```
SELECT p.codigocliente,c.nombrecliente,SUM(pd.cantidad*dp.preciounidad) as final_price

FROM pedidos p

JOIN clientes c ON c.codigocliente=p.codigocliente

JOIN detallespedidos dp ON p.codigopedido=dp.codigopedido

GROUP BY p.codigocliente

ORDER BY final_price DESC
```

17. Show the number of products in each range

```
SELECT gama,count(*) as count

FROM productos

GROUP BY gama

ORDER BY count DESC
```

18. Show the code of the orders where the most expensive 'Aromatic' range product has been sold

```
SELECT dp.codigopedido,p.codigoproducto

FROM productos p

JOIN detallespedidos dp ON dp.codigoproducto=p.codigoproducto
```

```
WHERE p.precioventa=(SELECT MAX(precioventa) FROM productos
WHERE trim(lower(gama))='aromaticas')
```

19. Show the code of the orders where more than 6 products have been sold

```
SELECT p.codigopedido,count(*) as count
FROM pedidos p
JOIN detallespedidos dp ON dp.codigopedido=p.codigopedido
GROUP BY p.codigopedido
HAVING count>6
ORDER BY count
```

20. Show the order code where the order price is higher than the average of all orders

```
SELECT dp.codigopedido,SUM(dp.cantidad*dp.preciounidad) as precio_pedido
FROM detallepedidos dp
GROUP BY dp.codigopedido
WHERE precio_pedido> (SELECT AVG(SUM(dp.cantidad*dp.preciounidad))
                      FROM detallepedidos dp
                      GROUP BY dp.codigopedido)
```

21. Make a view that shows the data of an employee (name, surname, city of 1 office) and the same for his boss (in the same row)

```
SELECT e1.nombre,e1.apellido1,e1.apellido2,o.ciudad
FROM empleados e1
JOIN oficinas o ON o.codigooficina=e1.codigooficina


Create or replace view empleados_jefes as
SELECT *
FROM empleados e_sub,empleados e_jefe
WHERE e_sub.codigojefe=e_jefe.codigoemp
```

22. Make a view that shows the order code and its total in euros

```
CREATE VIEW codigo_total as
SELECT p.codigopedido,SUM(dp.cantidad*dp.preciounidad)suma
```

```
from pedidos p
JOIN detallepedidos dp ON p.codigopedido=dp.codigopedido
GROUP BY p.codigopedido;
```

23. Make a view with the order information (code, order date, expected date, delivery date, customer name and total in euros)

```
create or replace view info_pedido as
SELECT p.codigopedido,p.fechapedido,p.fechaesperada,p.fechaentrega,
c.nombrecliente,ct.suma
from pedidos p,codigo_total ct,clientes c
WHERE c.codigocliente=p.codigocliente AND ct.codigopedido=p.codigopedido
ORDER BY ct.suma DESC;

select * from info_pedido;
```

24. Return the range of best-selling products

```
CREATE OR REPLACE VIEW info_gama as
SELECT p.gama as gama,SUM(dp.cantidad)as suma
FROM productos p ,detallepedidos dp
WHERE p.codigoproducto=dp.codigoproducto
GROUP BY p.gama;
```

25. Show the country (client) where the least orders are made. Use a view.

```
select gama,suma
from info_gama
WHERE suma in (SELECT MAX(suma) from info_gama);
```