Questão 1


```
select d.nome, div.nome, e1.nome, ISNULL(sal_bruto,0) 'Salario
Bruto', ISNULL(total_desc,0) as 'Total Desconto',
ISNULL(sal_bruto,0)-ISNULL(total_desc,0) as 'Salario Liquido'
from departamento d inner join divisao div inner join empregado e1
inner join
(select e2.matr, sum(venc.valor) as sal_bruto
from empregado e2 left outer join emp_venc ev inner join vencimento
venc
on ev.cod_venc=venc.cod_venc on e2.matr=ev.matr
group by e2.matr) sb inner join
(select e3.matr, sum(desco.valor) as total_desc
from empregado e3 left outer join emp_desc ed inner join desconto
desco
on ed.cod_desc=desco.cod_desc on e3.matr=ed.matr
group by e3.matr) tdesc
on sb.matr=tdesc.matr on e1.matr=sb.matr on cod_divisao=lotacao_div
on d.cod_dep=div.cod_dep
order by d.nome, div.nome asc, 6 desc
```

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versão com visões


```
create view Salario_Bruto (matr, sal_bruto)

as

select e.matr, isnull(sum(venc.valor),0)
from empregado e left outer join emp_venc ev inner join vencimento
venc
on ev.cod_venc=venc.cod_venc on e.matr=ev.matr
group by e.matr
```


```
create view Total_Desc (matr,total_desc)

as

select e.matr, isnull(sum(desco.valor),0)
from empregado e left outer join emp_desc ed inner join desconto
desco
on ed.cod_desc=desco.cod_desc on e.matr=ed.matr
group by e.matr
```


```
select d.nome, div.nome, e.nome, sal_bruto 'Salario Bruto',
```

```
total_desc as 'Total Desconto',
sal_bruto-total_desc as 'Salario Liquido'
from departamento d inner join divisao div inner join empregado e
inner join
Salario_Bruto sb inner join Total_Desc tdesc
on sb.matr=tdesc.matr on e.matr=sb.matr on cod_divisao=lotacao_div
on d.cod_dep=div.cod_dep
order by d.nome, div.nome asc, 6 desc
```

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Questão 2

```
select e1.nome,  ISNULL(sal_bruto,0)-ISNULL(total_desc,0)
from empregado e1 inner join
(select e2.matr, sum(venc.valor) as sal_bruto
from empregado e2 left outer join emp_venc ev inner join vencimento
venc
on ev.cod_venc=venc.cod_venc on e2.matr=ev.matr
group by e2.matr) sb inner join
(select e3.matr, sum(desco.valor) as total_desc
from empregado e3 left outer join emp_desc ed inner join desconto
desco
on ed.cod_desc=desco.cod_desc on e3.matr=ed.matr
group by e3.matr) tdesc
on sb.matr=tdesc.matr on e1.matr=sb.matr

where ISNULL(sal_bruto,0)-ISNULL(total_desc,0)>=all
(select avg(ISNULL(sal_bruto,0)-ISNULL(total_desc,0))
from empregado e5 inner join
(select e6.matr, sum(venc.valor) as sal_bruto
from empregado e6 left outer join emp_venc ev inner join vencimento
venc
on ev.cod_venc=venc.cod_venc on e6.matr=ev.matr
group by e6.matr) sb inner join
(select e7.matr, sum(desco.valor) as total_desc
from empregado e7 left outer join emp_desc ed inner join desconto
desco
on ed.cod_desc=desco.cod_desc on e7.matr=ed.matr
group by e7.matr) tdesc
on sb.matr=tdesc.matr on e5.matr=sb.matr

where e5.lotacao=e1.lotacao
group by e5.lotacao_div)
```

```
Questão 3
select dep.nome as 'Departamento', div.nome 'Divisão com Maior Média
Salarial no Departamento',
cast(M.media as dec(10,2)) as 'Média Salarial da Divisão'

from (select cod_divisao, avg(ISNULL(sal_bruto,0)-
ISNULL(total_desc,0)) as media
from divisao d inner join empregado e1 inner join
(select e2.matr, sum(venc.valor) as sal_bruto
from empregado e2 left outer join emp_venc ev inner join vencimento
venc
on ev.cod_venc=venc.cod_venc on e2.matr=ev.matr
group by e2.matr) sb inner join
(select e3.matr, sum(desco.valor) as total_desc
from empregado e3 left outer join emp_desc ed inner join desconto
desco
on ed.cod_desc=desco.cod_desc on e3.matr=ed.matr
group by e3.matr) tdesc
on sb.matr=tdesc.matr on e1.matr=sb.matr on
d.cod_divisao=e1.lotacao_div
group by cod_divisao) M inner join divisao div inner join
departamento dep
on dep.cod_dep=div.cod_dep on div.cod_divisao=M.cod_divisao
where M.media >=all
(select avg(ISNULL(sal_bruto,0)-ISNULL(total_desc,0))
from divisao d2 inner join empregado e1 inner join
(select e2.matr, sum(venc.valor) as sal_bruto
from empregado e2 left outer join emp_venc ev inner join vencimento
venc
on ev.cod_venc=venc.cod_venc on e2.matr=ev.matr
group by e2.matr) sb inner join
(select e3.matr, sum(desco.valor) as total_desc
from empregado e3 left outer join emp_desc ed inner join desconto
desco
on ed.cod_desc=desco.cod_desc on e3.matr=ed.matr
group by e3.matr) tdesc

on sb.matr=tdesc.matr on e1.matr=sb.matr on
d2.cod_divisao=e1.lotacao_div
where div.cod_dep=d2.cod_dep

group by d2.cod_divisao)




Questão 4

select dep.nome as 'Nome Departamento', div.nome as 'Nome Divisão',
(select avg(ISNULL(sal_bruto,0)-ISNULL(total_desc,0))
from divisao d left outer join empregado e1 inner join
(select e2.matr, sum(venc.valor) as sal_bruto
```

```
from empregado e2 left outer join emp_venc ev inner join vencimento
venc
on ev.cod_venc=venc.cod_venc on e2.matr=ev.matr
group by e2.matr) sb inner join
(select e3.matr, sum(desco.valor) as total_desc
from empregado e3 left outer join emp_desc ed inner join desconto
desco
on ed.cod_desc=desco.cod_desc on e3.matr=ed.matr
group by e3.matr) tdesc
on sb.matr=tdesc.matr on e1.matr=sb.matr on
cod_divisao=e1.lotacao_div

where d.cod_divisao=div.cod_divisao

group by d.cod_divisao
) as 'Média Salarial da Divisão'

from divisao div inner join departamento dep on
div.cod_dep=dep.cod_dep




Questão 5

select d.nome as 'Nome Departamento', count(*) as 'Numero de
Empregados',
avg(ISNULL(sal_bruto,0)-ISNULL(total_desc,0)) as 'Media Salarial',
max(ISNULL(sal_bruto,0)-ISNULL(total_desc,0)) as 'Maior Salario',
min(ISNULL(sal_bruto,0)-ISNULL(total_desc,0)) as 'Menor Salario'
from departamento d left outer join divisao left outer join
empregado e1 inner join
(select e2.matr, sum(venc.valor) as sal_bruto
from empregado e2 left outer join emp_venc ev inner join vencimento
venc
on ev.cod_venc=venc.cod_venc on e2.matr=ev.matr
group by e2.matr) sb inner join
(select e3.matr, sum(desco.valor) as total_desc
from empregado e3 left outer join emp_desc ed inner join desconto
desco
on ed.cod_desc=desco.cod_desc on e3.matr=ed.matr
group by e3.matr) tdesc
on sb.matr=tdesc.matr on e1.matr=sb.matr on
cod_divisao=e1.lotacao_div
on d.cod_dep=divisao.cod_dep
group by d.nome
```