```sql
--- 2nd Highest Salary

with cte as (
SELECT *,Dense_RANK()OVER  (partition by [group] order by salary desc) as rownum
  FROM [OrgExport_FVtoFV_Migration].[dbo].[Emp]
  )
  select * from cte
  where rownum = 2


--- Where count in certain group is greater than particular count

with cte as (
select *,Dense_RANK() over(partition by logid order by results  ) rownum from
logs
)
--select * from logs
select logid,results,rownum from cte where concat(rownum,logid) in (
select
concat(rownum,logid)
--,count(results) as result_count,

from cte c1
group by logid,rownum
having count(results)>2
)




----- Salry of Employee Greater Than Manager

select * from employee a
join
employee b
on a.id = b.ManagerId
where a.Salary < b.Salary

-- Tempreature of Next day more than previous day

select w1.*from weather w1
join weather w2
on w1.id = w2.id+1
where w1.temp>w2.temp

select w1.* from weather w1
join
weather w2
on DATEDIFF(day,w1.recorddate , w2.recorddate)= -1
where w1.temp>w2.temp


-- Tempreature of present day more than next day

select *from weather w1    --1,3,4
join weather w2
on w1.id +1 = w2.id
where w1.temp<w2.temp
```

```sql
---- Tax reduction if salary more than certain value

select *,
CASE
WHEN sumemp>2000 THEN b1.salary*.5
WHEN sumemp<2000 THEN b1.salary*.1
end as reduction
from bonus b1
join
(
select company_id , sum(salary) sumemp from bonus
group by company_id
) b2
on b1.company_id = b2.company_id

-- when two dates are same in different columns

select * from delivery
where DATEDIFF(day,order_date , pref_date)=0

----- Select ids having even number

select * from even
where id%2=0

----- Changing of seats like (1 became 2 , and 2 became 1 so on)

select s1.* , seatchange from seats s1
left join
(
select id,
CASE
WHEN id%2=1 THEN id+1
WHEN id%2=0 THEN id-1
else id
end seatchange
from seats
) s2
on s1.id = s2.id
```