**AQ1:**

select l.location\_name,t.time\_year,t.time\_month,sum(j.quantity\_ordered\*j.unit\_price)as JobAmount,

sum(sum(j.quantity\_ordered\*j.unit\_price))over(partition by l.location\_name,t.time\_year ordered by t.time\_month

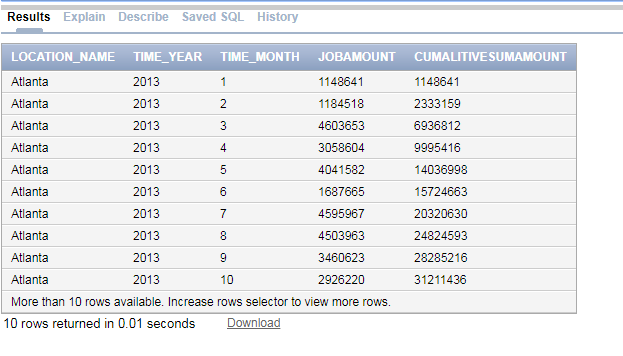
rows unbounded preceding)as cumalitiveSumAmount

from w\_location\_d l,w\_job\_f j,w\_time\_d t

where l.location\_id=j.location\_id and

j.contract\_date=t.time\_id

group by l.location\_name,t.time\_year,t.time\_month



**AQ2:**

select l.location\_name,t.time\_year,t.time\_month,avg(quantity\_ordered\*unit\_price)as JobAmount,

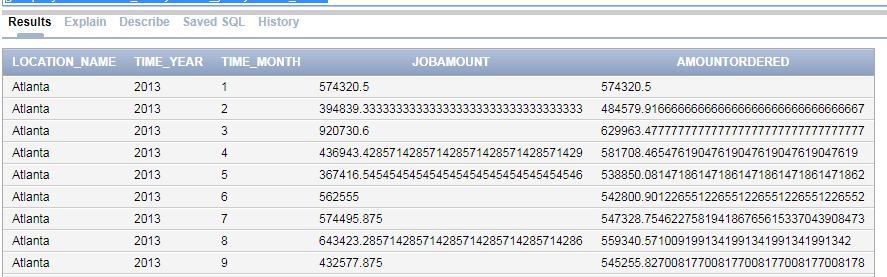
avg(avg(quantity\_ordered\*unit\_price))over(partition by l.location\_name order by t.time\_year,t.time\_month ROWS BETWEEN 11 PRECEDING AND CURRENT ROW )as amountordered

from w\_location\_d l,w\_job\_f j,w\_time\_d t

where l.location\_id=j.location\_id and

j.contract\_date=t.time\_id

group by l.location\_name,t.time\_year,t.time\_month



**AQ3:**

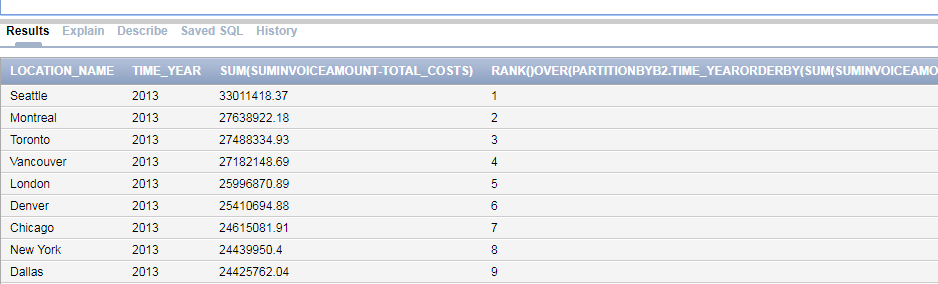
select b2.location\_name,b2.time\_year,sum(suminvoiceamount-total\_costs),

rank()over(partition by b2.time\_year order by(sum(SumInvoiceAmount - Total\_Costs))desc)

from BQ2 b1,BQ3 b2

where b1.job\_id=b2.job\_id

group by b2.location\_name,b2.time\_year



**AQ4:**

select b2.location\_name, b2.time\_year, b2.time\_month, sum(b1.suminvoiceamount - b2.total\_costs) / sum(suminvoiceamount) profit\_margin,

rank() over(partition by b2.time\_year order by (sum(b1.suminvoiceamount - b2.total\_costs) / sum(suminvoiceamount))desc) profit\_rank

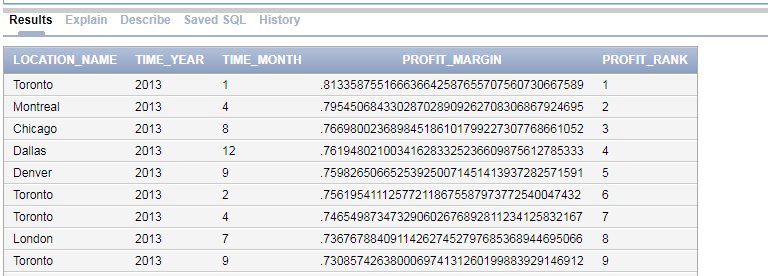
from bq2 b1, bq3 b2

where b2.job\_id = b2.job\_id

and b1.time\_year = b2.time\_year

and b1.location\_id = b2.location\_id

group by b2.location\_name, b2.time\_year, b2.time\_month;



**AQ5:**

select b2.location\_name, b2.time\_year, b2.time\_month, sum(b1.suminvoiceamount - b2.total\_costs) / sum(suminvoiceamount) profit\_margin,

percent\_rank() over( order by (sum(b1.suminvoiceamount - b2.total\_costs) / sum(suminvoiceamount))desc) profit\_rank

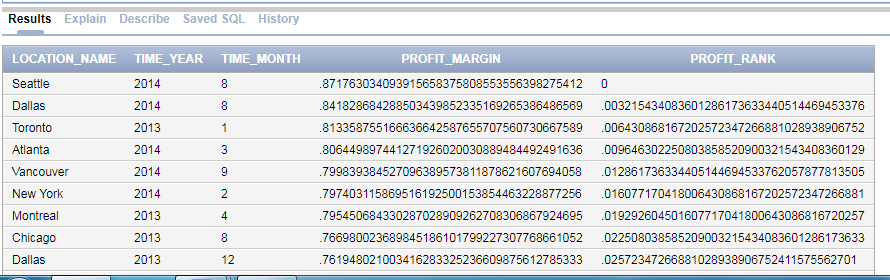
from bq2 b1, bq3 b2

where b2.job\_id = b2.job\_id

and b1.time\_year = b2.time\_year

and b1.location\_id = b2.location\_id

group by b2.location\_name, b2.time\_year, b2.time\_month;



**AQ6:**

select location\_name, time\_year, time\_month, profit\_margin, profit\_rank

from

(select b2.location\_name, b2.time\_year, b2.time\_month, sum(b1.suminvoiceamount - b2.total\_costs) / sum(suminvoiceamount) profit\_margin,

percent\_rank() over( order by (sum(b1.suminvoiceamount - b2.total\_costs) / sum(suminvoiceamount))desc) profit\_rank

from bq2 b1, bq3 b2

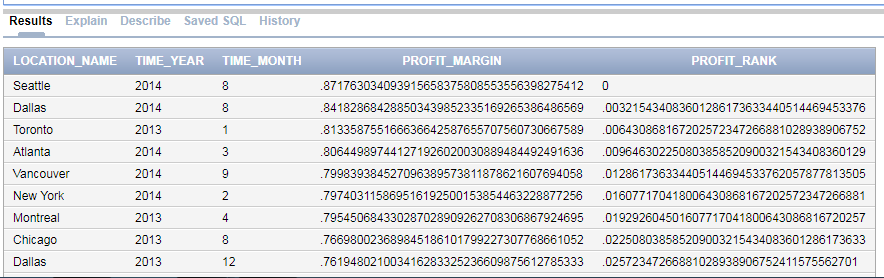
where b2.job\_id = b2.job\_id

and b1.time\_year = b2.time\_year

and b1.location\_id = b2.location\_id

group by b2.location\_name, b2.time\_year, b2.time\_month)

where profit\_rank<0.05



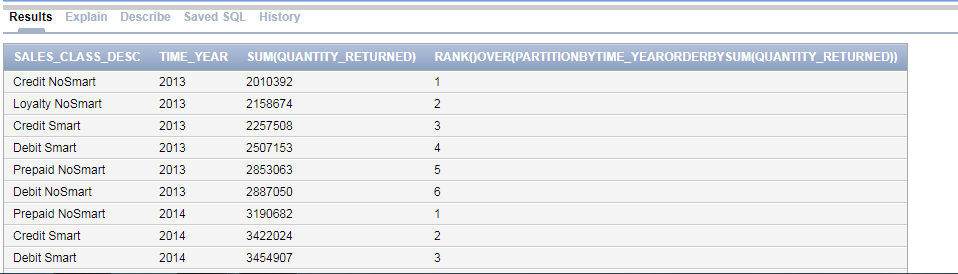
**Q7:**

select sales\_class\_desc, time\_year, sum(quantity\_returned),

rank() over (partition by time\_year order by sum(quantity\_returned))

from BQ4

group by sales\_class\_desc, time\_year;



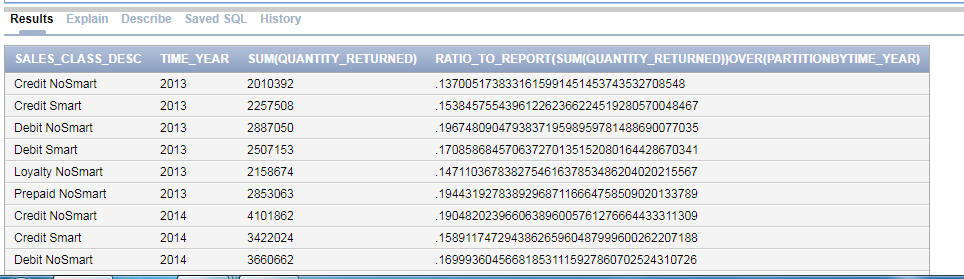
**Q8:**

select sales\_class\_desc, time\_year, sum(quantity\_returned),

ratio\_to\_report(sum(quantity\_returned)) over (partition by time\_year)

from BQ4

group by sales\_class\_desc, time\_year;



**Q9:**

select b.location\_name,t.time\_year, sum(busdaysdiff),

rank() over ( partition by t.time\_year order by sum(busdaysdiff))as rank,

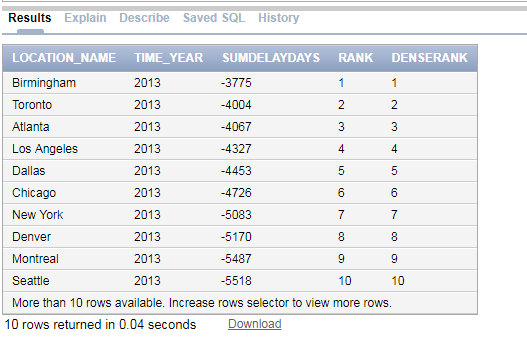
dense\_rank over( partition by t.time\_year order by sum(busdaysdiff))as denserank

from bq6 ,w\_time\_d t

where

t.time\_id=b.date\_ship\_by

group by location\_name,t.time\_year;



**Q10:**

select location\_name, t.time\_year,

count(\*) as totaljobs,

sum(busdaysdiff) as,

sum(quantity\_ordered - delay\_quantity) / sum(quantity\_ordered) ,

rank() over ( partition by t.time\_year

order by sum(quantity\_ordered -delay\_quantity ) /

sum(quantity\_ordered) desc) as rankdelay

from bq5 b, w\_time\_d t

where t.time\_id = b.date\_promised

group by location\_name,t.time\_year;

