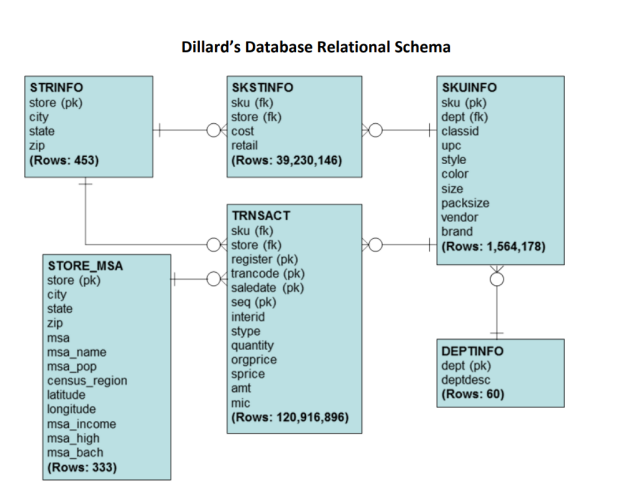
%load\_ext sql

%sql mysql://studentuser:studentpw@mysqlserver/dognitiondb

%sql USE dognitiondb



Database ua\_dillards

w5

show table trnsact

exe1

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

count(distinct extract(day from saledate))

from trnsact

group by month\_num,year\_num

order by year\_num,month\_num

select distinct stype from trnsact

exe2

select sum(

case when extract(month from saledate)=6 then sprice

when extract(month from saledate)=7 then sprice

when extract(month from saledate)=8 then sprice end),sku

from trnsact

where stype='P'

group by 2

order by 1 desc

exe3

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)),

store

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,4

order by 2

exe5

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

store,sum(sprice) as sump,count(distinct extract(day from saledate)) as countd

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,store

having count(distinct extract(day from saledate)) > 20

)

select case when msa\_high<60 then 'low'

when msa\_high>70 then 'high'

else 'medium' end as edugroup,

sum(sump)/sum(countd) as ppp

from trnsact\_cleaned t

join store\_msa s

on s.store=t.store

group by edugroup

exe6

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

store,sum(sprice) as sump,count(distinct extract(day from saledate)) as countd

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,store

having count(distinct extract(day from saledate)) > 20

)

select msa\_income,city,state,s.store,

sum(sump)/sum(countd) as ppp

from trnsact\_cleaned t

join store\_msa s

on s.store=t.store

group by s.store,msa\_income,city,state

order by ppp desc

exe7

select s.sku,s.brand,sub.stdp

from skuinfo s

join

(select sku,stddev\_samp(sprice) as stdp

from trnsact

where stype='p'

group by sku

having count(sprice)>100) sub

on sub.sku=s.sku

order by 3 desc

exe8

exe9

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

sum(sprice) as sump,count(distinct extract(day from saledate)) as countd

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num

order by 3

q2

select count(distinct sku)

from skuinfo

where brand='Polo fas'

and (size='XXL' or color = 'black')

q3

select sub.store,s.city,s.state

from

(select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

count(distinct extract(day from saledate)) as trnday,store

from trnsact

where stype='p'

group by month\_num,year\_num,store

) sub

join store\_msa s on s.store=sub.store

where sub.trnday=11

q4

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

sku,sum(sprice) as sump,count(distinct extract(day from saledate)) as countd

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,sku

having count(distinct extract(day from saledate)) > 20

)

select sum(case when month\_num=12 then avgspd end)-sum(case when month\_num=11 then avgspd end) as divide,sku

from trnsact\_cleaned

group by sku

order by divide desc

q5

select count(distinct s.sku) as ssku,s.vendor

from trnsact t full outer join skuinfo s on t.sku=s.sku

group by 2

order by 1

q7

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

store,sum(sprice) as sump,count(distinct extract(day from saledate)) as countd

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,store

having count(distinct extract(day from saledate)) > 20

)

select sum(case when month\_num=12 then avgspd end)-sum(case when month\_num=11 then avgspd end) as divide,st.store,st.city,st.state

from trnsact\_cleaned,store\_msa st

where st.store=trnsact\_cleaned.store

group by 2,3,4

order by divide desc

q8

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

store,sum(sprice) as sump,count(distinct extract(day from saledate)) as countd

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,store

having count(distinct extract(day from saledate)) > 20

)

select msa\_income,city,state,s.store,

sum(sump)/sum(countd) as ppp

from trnsact\_cleaned t

join store\_msa s

on s.store=t.store

group by s.store,msa\_income,city,state

order by 1 desc

q9

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

store,sum(sprice) as sump,count(distinct extract(day from saledate)) as countd

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,store

having count(distinct extract(day from saledate)) > 20

)

select case when s.msa\_income<20000 then 'low'

when s.msa\_income<30000 then 'med-low'

when s.msa\_income<40000 then 'med-high' else 'high' end as incomegroup,

sum(sump)/sum(countd) as ppp

from trnsact\_cleaned t

join store\_msa s

on s.store=t.store

group by 1

order by 1 desc

q10

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

store,sum(sprice) as sump,count(distinct extract(day from saledate)) as countd

from trnsact

where stype='p'

group by month\_num,year\_num,store

)

select case when s.msa\_pop>5000000 then 'very large'

else 'else' end as popgroup,

sum(sump)/sum(countd) as ppp

from trnsact\_cleaned t

join store\_msa s

on s.store=t.store

group by 1

order by 1 desc

q11

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

sum(sprice) as sump,count(distinct extract(day from saledate)) as countd,sku

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,sku

having count(distinct extract(day from saledate)) > 20

)

select (sum(case when month\_num=12 then sump end)/sum(case when month\_num=12 then countd end))/(sum(case when month\_num=11 then sump end)/sum(case when month\_num=11 then countd end)) as divide,sk.dept,sum(case when month\_num=12 then sump end),

sum(case when month\_num=11 then sump end)

from skuinfo sk,trnsact\_cleaned

where sk.sku=trnsact\_cleaned.sku

group by 2

order by divide desc

select \*

from deptinfo

where dept=4801

q12

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

sum(sprice) as sump,count(distinct extract(day from saledate)) as countd,sku

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,sku

having count(distinct extract(day from saledate)) > 20

)

select (sum(case when month\_num=8 then sump end)/sum(case when month\_num=8 then countd end))-(sum(case when month\_num=9 then sump end)/sum(case when month\_num=9 then countd end)) as divide,sk.dept,sum(case when month\_num=12 then sump end),

sum(case when month\_num=11 then sump end),st.store,st.city

from skuinfo sk,trnsact\_cleaned,store\_msa st

where sk.sku=trnsact\_cleaned.sku and st.store=trnsact\_cleaned.store

group by 2

order by divide desc

select \*

from deptinfo

where dept=4801

q13

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

sum(sprice) as sump,count(distinct extract(day from saledate)) as countd,sku,

sum(quantity) as sumq,store

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,sku,store

having count(distinct extract(day from saledate)) > 20

)

select (sum(case when month\_num=8 then sumq end)-sum(case when month\_num=9 then sumq end)) as qminus,sk.dept,sum(case when month\_num=12 then sump end),

sum(case when month\_num=11 then sump end),st.store,st.city

from skuinfo sk,trnsact\_cleaned,store\_msa st

where sk.sku=trnsact\_cleaned.sku and st.store=trnsact\_cleaned.store

group by 2,st.store,st.city

order by 1 desc

select \*

from deptinfo

where dept=4801

Q14

with trnsact\_cleaned as(

select extract(month from saledate) as month\_num,

extract(year from saledate) as year\_num,

sum(sprice)/count(distinct extract(day from saledate)) as avgspd,

sum(sprice) as sump,count(distinct extract(day from saledate)) as countd,sku,

sum(quantity) as sumq,store

from trnsact

where stype='p' and (extract(year from saledate)<>2015 or extract(month from saledate)<>8)

group by month\_num,year\_num,sku,store

having count(distinct extract(day from saledate)) > 20

)

Select avgspd,store,month\_num

from trnsact\_cleaned

Group by store

Order by month\_num