Group 3 – IowaLiquorSales SQL queries

-- Liquor Sales Measures

--1. Sales $

select lstr.Store\_Name,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

group by lstr.Store\_Name

order by Sales;

--2 Sales Volume(Gallons)

select lstr.Store\_Name,sum(itm.Volume\_Sold\_Gallons) SalesVolume\_Gallons

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

group by lstr.Store\_Name

order by SalesVolume\_Gallons;

--3 Sales Volume(Bottles)

select lstr.Store\_Name,sum(itm.Bottles\_Sold) SalesVolume\_Bottles

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

group by lstr.Store\_Name

order by SalesVolume\_Bottles desc;

--4 Gross profit (RetailPrice-Cost)

select lstr.Store\_Name,Concat('$',sum(itm.State\_Bottle\_Retail-itm.State\_Bottle\_Cost)) GrossProfit

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

group by lstr.Store\_Name

order by GrossProfit desc;

--5 Sales Per Capita -- Hold

select ctyr.City,(sum(itm.Sale\_Dollars)/sum(ctyr.Population)) SalesPerCapita

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

join FCT\_iowa\_city\_population\_by\_year ctyr on (ctyr.City\_SK=lstr.City\_SK)

group by ctyr.City

order by SalesPerCapita desc;

--Q2. Liquor Sales by time

--1 Total

select FORMAT(hdr.Invoice\_Date,'MM/dd/yyyy') Total ,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

group by FORMAT(hdr.Invoice\_Date,'MM/dd/yyyy')

order by Sales;

--2 Year

select FORMAT(hdr.Invoice\_Date,'yyyy') "Year" ,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

group by FORMAT(hdr.Invoice\_Date,'yyyy')

order by Sales;

--3 Year, Month

select FORMAT(hdr.Invoice\_Date,'yyyy/MM') YearMonth ,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

group by FORMAT(hdr.Invoice\_Date,'yyyy/MM')

order by Sales;

--4 (YoY)

select FORMAT(hdr.Invoice\_Date,'yyyy') "Year" ,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

group by FORMAT(hdr.Invoice\_Date,'yyyy')

order by Sales;

--3 Liquor Sales by dimension

--1. Store

select lstr.Store\_Name,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

group by lstr.Store\_Name

order by Sales;

--2 County

select cnty.County,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

join Dim\_iowa\_county cnty on (cnty.County\_SK=lstr.County\_SK)

group by cnty.County

order by Sales;

--3 City

select cty.City,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

join Dim\_iowa\_city cty on (cty.City\_SK=lstr.City\_SK)

group by cty.City

order by Sales;

--4 Category

select cat.Category\_Name Category,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join Dim\_iowa\_liquor\_Products prd on (prd.Item\_SK=itm.Item\_SK)

join Dim\_iowa\_liquor\_Product\_Categories cat on (cat.Category\_SK=prd.Category\_SK)

group by cat.Category\_Name

order by Sales;

--5 Item

select prd.Item\_Description Item,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join Dim\_iowa\_liquor\_Products prd on (prd.Item\_SK=itm.Item\_SK)

group by prd.Item\_Description

order by Sales;

--6 Vendor

select vnd.Vendor\_Name Vendor,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join Dim\_iowa\_liquor\_Products prd on (prd.Item\_SK=itm.Item\_SK)

join Dim\_iowa\_liquor\_Vendors vnd on (vnd.Vendor\_SK=prd.Vendor\_SK)

group by vnd.Vendor\_Name

order by Sales;

-- Top 20 stores (all-time)

select top 20 lstr.Store\_Name,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

group by lstr.Store\_Name

order by Sales desc;

-- Top 20 cities (all-time)

select top 20 cty.City,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

join Dim\_iowa\_city cty on (cty.City\_SK=lstr.City\_SK)

group by cty.City

order by Sales desc;

-- Top 10 counties (all-time)

select top 20 cnty.County,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number)

join Dim\_Iowa\_Liquor\_Stores lstr on (lstr.Store\_SK=hdr.Store\_SK)

join Dim\_iowa\_county cnty on (cnty.County\_SK=lstr.County\_SK)

group by cnty.County

order by Sales desc;

-- Top 20 categories (all-time)

select top 20 cat.Category\_Name Category,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join Dim\_iowa\_liquor\_Products prd on (prd.Item\_SK=itm.Item\_SK)

join Dim\_iowa\_liquor\_Product\_Categories cat on (cat.Category\_SK=prd.Category\_SK)

group by cat.Category\_Name

order by Sales desc;

-- Top 50 items (all-time)

select top 50 prd.Item\_Description Item,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join Dim\_iowa\_liquor\_Products prd on (prd.Item\_SK=itm.Item\_SK)

group by prd.Item\_Description

order by Sales desc;

--6 Top 20 vendor (all-time)

select top 20 vnd.Vendor\_Name Vendor,concat('$',sum(itm.Sale\_Dollars)) Sales

from fct\_iowa\_liquor\_sales\_invoice\_lineitem itm

join Dim\_iowa\_liquor\_Products prd on (prd.Item\_SK=itm.Item\_SK)

join Dim\_iowa\_liquor\_Vendors vnd on (vnd.Vendor\_SK=prd.Vendor\_SK)

group by vnd.Vendor\_Name

order by Sales desc;