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| Question | Query |
| Sales | SELECT ROUND(sum(Invoice\_Sale\_Dollars),2) as 'TotalSales'   FROM iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h; |
| Sales Volumes(gallons) | SELECT ROUND(sum(Invoice\_Volume\_Sold\_Gallons),2) as 'TotalSalesVolume (In Gallons)'  FROM iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h; |
| Sales Volumes(bottles) | SELECT ROUND(sum(Invoice\_Bottles\_Sold),2) as 'TotalSalesVolume (Bottles)'      from iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h; |
| Gross profit (retail price - cost) | select ROUND(TotalRetailCost - TotalSalesCost, 2) as 'GrossProfit'      from      (          select              sum(State\_Bottle\_Retail \* Bottles\_Sold) as 'TotalRetailCost',              sum(State\_Bottle\_Cost \* Bottles\_Sold) as 'TotalSalesCost'          from    iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Lineitem l              join iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h                  on l.Invoice\_Number = h.Invoice\_Number      ) sq; |
| Liquor sales by dimension  Store | select          s.Store\_Name as 'StoreName',          ROUND(sum(Invoice\_Sale\_Dollars),2) as 'TotalSales'      from iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h          join iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Stores s on h.Store\_SK = s.Store\_SK      group by Store\_Name      order by 2 desc; |
| County | select          case when g.County = '' then 'NOT AVAILABLE'              else g.County              end as 'CountyName',          ROUND(sum(Invoice\_Sale\_Dollars),2) as 'TotalSales'      from    iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h          join iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Stores s on h.Store\_SK = s.Store\_SK          join (                  select distinct Geo\_SK,County                  from iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Geo              ) g on s.Geo\_SK = g.Geo\_SK      group by County      order by 2 desc; |
| City | select          case when g.City = '' then 'NOT AVAILABLE'              else g.City              end as 'CityName',          ROUND(sum(Invoice\_Sale\_Dollars),2) as 'TotalSales'      from    iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h          join iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Stores s on h.Store\_SK = s.Store\_SK          join (                  select distinct Geo\_SK,City                  from iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Geo              ) g on s.Geo\_SK = g.Geo\_SK      group by City      order by 2 desc; |
| Category | select          pc.Category\_Name as 'CategoryName',          ROUND(sum(h.Invoice\_Sale\_Dollars),2) as 'TotalSales'      from    iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h          join iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Lineitem l on l.Invoice\_Number = h.Invoice\_Number          join iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Products p on l.Item\_SK = p.Item\_SK          join iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Product\_Categories pc on pc.Category\_SK = p.Category\_SK      group by pc.Category\_Name      order by 2 desc; |
| Item name | select          p.Item\_Description as 'ItemName',          ROUND(sum(h.Invoice\_Sale\_Dollars),2) as 'TotalSales'      from    iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h          join iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Lineitem l on l.Invoice\_Number = h.Invoice\_Number          join iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Products p on l.Item\_SK = p.Item\_SK      group by p.Item\_Description      order by 2 desc; |
| Vendor | select          v.Vendor\_Name as 'VendorName',          ROUND(sum(h.Invoice\_Sale\_Dollars),2) as 'TotalSales'      from    iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h          join iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Lineitem l on l.Invoice\_Number = h.Invoice\_Number          join iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Products p on l.Item\_SK = p.Item\_SK          join iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Vendors v on p.Vendor\_SK = v.Vendor\_SK      group by v.Vendor\_Name      order by 2 desc; |
| Liquor sales by Time Total | select          ROUND(sum(Invoice\_Sale\_Dollars),2) as 'TotalSales'      from iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h; |
| Year | select          YEAR(Invoice\_Date) as 'Year',          ROUND(sum(Invoice\_Sale\_Dollars),2) as 'TotalSales'      from iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h      group by YEAR(Invoice\_Date)      order by 1 desc; |
| Year of month | select          YEAR(Invoice\_Date) as 'Year',          DATENAME(MONTH, Invoice\_Date)  as 'Month',          ROUND(sum(Invoice\_Sale\_Dollars),2) as 'TotalSales'      from iowaliquorsales\_dim.FCT\_Iowa\_Liquor\_Sales\_Invoice\_Header h      group by YEAR(Invoice\_Date), DATENAME(MONTH, Invoice\_Date)      order by 1 desc; |
| Year of Year | select top 10 FORMAT(hdr.Invoice\_Date,'yyyy') "Year" ,concat('$',sum(itm.Sale\_Dollars)) Sales from iowaliquorsales\_dim.fct\_iowa\_liquor\_sales\_invoice\_lineitem itm join iowaliquorsales\_dim.fct\_iowa\_liquor\_sales\_invoice\_header hdr on (hdr.Invoice\_Number=itm.Invoice\_Number) group by FORMAT(hdr.Invoice\_Date,'yyyy') order by Sales; |
|  | Select YEAR(str\_to\_date(h.Invoice\_Date, '%m/%d/%Y')) as Order\_Date, y.City, ROUND(sum(h.Invoice\_Sale\_Dollars)/y.population,2) AS Total\_Sales from iowaliquorsales\_dim..fct\_iowa\_liquor\_sales\_invoice\_header h, iowaliquorsales\_dim.FCT\_iowa\_city\_population\_by\_year y, iowaliquorsales\_dim.Dim\_Iowa\_Liquor\_Stores st where h.Store\_SK = st.Store\_SK and st.City\_SK = y.City\_SK Group BY Order\_Date, y.City Order By Order\_Date, y.City; |