**HW 5**

**Gabe Wallon**

**1.** **Show a list of Customer Name, Gender, Sales Person’s Name and Sales Person's City for all**

**-- products sold on September 2015, whose Sales Price is more than 20 and Quantity sold is more**

**-- than 8**

select c.customername, c.gender, s.salespersonname, s.city

from

fact\_productsales f,

dim\_customer c,

dim\_date d,

dim\_salesperson s

where

f.customerid = c.customerid

and f.salesdatekey = d.datekey

and f.salespersonid = s.salespersonid

and d.month = 9

and d.year = 2015

and f.salesprice > 20

and f.quantity > 8;

A black and white list with white text

Description automatically generated

**2. Display the store name, city name, and product name, for products costing less than $50, sold in Boulder CO,**

**-- in March of 2017.**

select s.storename, s.city, p.productname

from

fact\_productsales f,

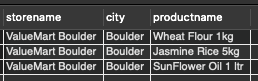
dim\_date d,

dim\_store s,

dim\_product p

where

f.salesdatekey = d.datekey

 and f.storeid = s.storeid

and f.productid = p.productkey

and d.month = 3

and d.year = 2017

and f.productcost < 50

and s.city = 'Boulder';

**3. Display the top two sales people of 2017, ranked by total revenue.**

select s.salespersonname, sum(f.quantity\*f.salesprice) as 'Total Revenue'

from

fact\_productsales f,

dim\_date d,

dim\_salesperson s

where

f.salesdatekey = d.datekey

and f.salespersonid = s.salespersonid

and d.year = 2017

group by

s.salespersonid

order by sum(f.quantity\*f.salesprice) desc

limit 2;

A black and white screen with white text

Description automatically generated

**4. Display the customer responsible for the most total revenue in 2017.**

select c.customername, sum(f.quantity\*f.salesprice) as 'Customer Total Revenue'

from

fact\_productsales f,

dim\_date d,

dim\_customer c

where

f.salesdatekey = d.datekey

and f.customerid = c.customerid

and d.year = 2017

group by

c.customername

order by sum(f.quantity\*f.salesprice) asc

limit 1;

A black and white text

Description automatically generated

**5. Display the total dollar amount of products sold at each store between 2010 and 2017.**

select s.storename, sum(f.salesprice) as 'Total Sales Price'

from

fact\_productsales f,

dim\_date d,

dim\_store s

where

f.salesdatekey = d.datekey

and f.storeid = s.storeid

and d.year between 2010 and 2017

group by s.storename;

A screenshot of a graph

Description automatically generated

**6. Display the total profits each store incurred from Jasmin Rice sales in the year 2010.**

select s.storename, p.productname, sum((f.quantity\*f.salesprice) - (f.quantity\*f.productcost)) as 'Total Profits'

from

fact\_productsales f,

dim\_date d,

dim\_store s,

dim\_product p

where

f.salesdatekey = d.datekey

and f.storeid = s.storeid

and f.productid = p.productkey

and d.year = 2010

and p.productname like '%Jasmine Rice%'

group by

s.storename, p.productname;

A list of products

Description automatically generated

**7. Display Total Revenue from 'ValueMart Boulder' Store for each Quarter during 2016, sort**

**-- your result by Quarter in chronological order. Display Quarter as well as Total Revenue**

select d.quarter, sum(f.salesprice\*f.quantity) as 'Total Revenue'

from

fact\_productsales f,

dim\_date d,

dim\_store s

where

f.salesdatekey = d.datekey

and f.storeid = s.storeid

and s.storename = 'ValueMart Boulder'

and d.year = 2016

group by d.quarter

order by d.quarter asc;

A screenshot of a graph

Description automatically generated

**8. Display Customer Name and Total Sales Price for all items purchased by customers Melinda**

**-- Gates and Harrison Ford**

select c.customername, sum(f.salesprice) as 'Total Sales Price'

from

fact\_productsales f,

dim\_customer c

where

f.customerid = c.customerid

and c.customername in ('Melinda Gates', 'Harrison Ford')

group by c.customername;

A black and white text

Description automatically generated

**9. Display Store Name, Sales Price and Quantity for all items sold in March 12th 2017.**

select s.storename, f.salesprice, f.quantity

from

fact\_productsales f,

dim\_date d,

dim\_store s

where

f.salesdatekey = d.datekey

and f.storeid = s.storeid

and d.date = '2017-03-12';

A black and white sign with white text

Description automatically generated

**10. Display Sales Person’s Name and Total Revenue for the best performing Sales Person, i.e.,**

**-- the Sales Person with the HIGHEST Total Revenue.**

select s.salespersonname, sum(f.salesprice\*f.quantity) as 'Total Revenue'

from

fact\_productsales f,

dim\_date d,

dim\_salesperson s

where

f.salesdatekey = d.datekey

and f.salespersonid = s.salespersonid

group by s.salespersonname

order by sum(f.salesprice\*f.quantity) desc

limit 1;

A screenshot of a computer

Description automatically generated

**11. Display the Top 3 Product Name by their HIGHEST Total Profit. Display product name as**

**-- well as total profit**

select p.productname, sum((f.quantity\*f.salesprice) - (f.quantity\*f.productcost)) as TotalProfit

from

fact\_productsales f,

dim\_product p

where

f.productid = p.productkey

group by p.productname

order by TotalProfit desc

limit 3;

A screenshot of a computer

Description automatically generated

**12. Display Year, MonthName and Total Revenue for the 1st 3 months (i.e. January, February**

**-- and March) of 2017**

select d.year, d.monthname, sum(f.salesprice\*f.quantity) as 'Total Revenue'

from

fact\_productsales f,

dim\_date d

where

f.salesdatekey = d.datekey

and d.year = 2017

and d.month between 1 and 3

group by d.year, d.monthname;

A screenshot of a black and white screen

Description automatically generated

**13. Display Product Name, average product cost and average sales price for the products sold**

**-- in 2017. Show averages rounded to 2 decimal places.**

select p.productname,

round(avg(f.productcost),2) as 'Average Product Cost',

round(avg(f.salesprice),2) as 'Average Sales Price'

from

fact\_productsales f,

dim\_date d,

dim\_product p

where

f.salesdatekey = d.datekey

and f.productid = p.productkey

and d.year = 2017

group by p.productname;

A black and white table with white text

Description automatically generated

**14. Display Customer Name, average sales price and average quantity for all items purchased**

**-- by customer Melinda Gates. Show averages rounded to 2 decimal places**

select c.customername,

round(sum(f.salesprice)/count(\*),2) as 'Average Sales Price',

round(sum(f.quantity)/count(\*),2) as 'Average Quantity'

from

fact\_productsales f,

dim\_customer c

where

f.customerid = c.customerid

and c.customername = 'Melinda Gates';

A black and white sign

Description automatically generated with medium confidence

**15. Display Store Name, Maximum sales price and Minimum sales price for store located in**

**-- 'Boulder' city. Show MIN / MAX rounded to 2 decimal places**

select s.storename,

round(max(f.salesprice),2) as 'Max. sales price',

round(min(f.salesprice),2) as 'Min. sales price'

from

fact\_productsales f,

dim\_store s

where

f.storeid = s.storeid

and s.city = 'Boulder'

group by s.storename;

