

Limit to 1000 rows

```

79
80  /*-----Task 2 - Basic & Advanced Analysis-----*/
81
82  CREATE SCHEMA superstores;
83
84  • USE superstores;
85
86  /* 1) Write a query to display the Customer_Name and Customer Segment using alias name "Customer Name", "Customer Segment" from table Cust_dimen.*/
87
88  • SELECT Customer_Name AS 'Customer Name', Customer_Segment AS 'Customer Segment'
89     FROM Cust_dimen;
90

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	Customer Name	Customer Segment
▶	MUHAMMED MACINTYRE	SMALL BUSINESS
	BARRY FRENCH	CONSUMER
	CLAY ROZENDAL	CORPORATE
	CARLOS SOLTERO	CONSUMER
	CARL JACKSON	CORPORATE
	MONICA FEDERLE	CORPORATE

Cust_dimen 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	21:22:10	SELECT Customer_Name AS 'Customer Name', Customer_Segment AS 'Customer Segment' FR...	1000 row(s) returned	0.000 sec / 0.016 sec

Result Grid

Form Editor

Read Only

Limit to 1000 rows

```

84 • USE superstores;
85
86 /* 1) Write a query to display the Customer_Name and Customer Segment using alias name "Customer Name", "Customer Segment" from table Cust_dimen.*/
87
88 • SELECT Customer_Name AS 'Customer Name', Customer_Segment AS 'Customer Segment'
89 FROM Cust_dimen;
90
91 /* 2) Write a query to find all the details of the customer from the table cust_dimen order by desc.*/
92
93 • SELECT *
94 FROM cust_dimen ORDER BY Customer_Name DESC;
95

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Fetch rows:

	Customer_Name	Province	Region	Customer_Segment	Cust_id
▶	YOSEPH CARROLL	ALBERTA	WEST	CONSUMER	Cust_1798
	YANA SORENSEN	YUKON	YUKON	CORPORATE	Cust_1519
	YANA SORENSEN	NEWFOUNDLAND	ATLANTIC	CORPORATE	Cust_637
	YANA SORENSEN	QUEBEC	QUEBEC	CORPORATE	Cust_851
	YANA SORENSEN	BRITISH COLUMBIA	WEST	CORPORATE	Cust_1577
	XYLONA PRICE	ONTARIO	ONTARIO	CORPORATE	Cust_1006
	WILLIAM BROWN	SASKACHEWAN	PRARIE	CORPORATE	Cust_1266

cust_dimen 4
Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 2	21:25:51	SELECT * FROM cust_dimen ORDER BY Customer_Name DESC LIMIT 0, 1000	1000 row(s) returned	0.000 sec / 0.016 sec



```
90
91 /* 2) Write a query to find all the details of the customer from the table cust_dimen order by desc.*/
92
93 • SELECT *
94 FROM cust_dimen ORDER BY Customer_Name DESC;
95
96 /* 3) Write a query to get the Order ID, Order date from table orders_dimen where 'Order Priority' is high.*/
97
98 • SELECT Order_ID, Order_Date
99 FROM orders_dimen
100 WHERE Order_Priority LIKE('High');
101
```

Result Grid   Filter Rows: Export:  Wrap Cell Content:  Fetch rows: 

	Order_ID	Order_Date
►	293	01-10-2012
	483	10-07-2011
	613	17-06-2011
	643	24-03-2011
	1540	04-08-2012
	1702	06-05-2011
	1761	23-12-2010

orders_dimen 5 ×



Result Grid

Form Editor




Read Only

⌵ Action Output

#	Time	Action	Message	Duration / Fetch
3	21:25:55	SELECT * FROM cust_dimen ORDER BY Customer_Name DESC LIMIT 0, 1000	1000 row(s) returned	0.031 sec / 0.000 sec






Limit to 1000 rows




```
100 WHERE Order_Priority LIKE('High');
101
102 /* 4) Find the total and the average sales (display total_sales and avg_sales)*/
103
104 • SELECT SUM(sales) AS 'total_sales', AVG(sales) AS 'avg_sales'
105 FROM market_fact;
106
107 /* 5) Write a query to get the maximum and minimum sales from maket_fact table.*/
108
109 • SELECT MAX(sales) AS 'maximum sales', MIN(sales) AS 'minimum sales'
110 FROM market_fact;
111
```

Result Grid

 Filter Rows:

Export: 

Wrap Cell Content: 

	maximum sales	minimum sales
▶	89061.05	2.24

Result Grid

Form Editor

Result 7

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 5	21:27:33	SELECT SUM(sales) AS 'total_sales', AVG(sales) AS 'avg_sales' FROM market_fact LIMIT 0, ...	1 row(s) returned	0.031 sec / 0.000 sec

Limit to 1000 rows

```

110 FROM market_fact;
111
112 /* 6) Display the number of customers in each region in decreasing order of no_of_customers. The result should contain columns Region, no_of_customers.*/
113
114 • SELECT region, COUNT(*) AS no_of_customers
115 FROM cust_dimen GROUP BY region ORDER BY no_of_customers DESC;
116
117 /* 7) Find the region having maximum customers (display the region name and max(no_of_customers)*/
118
119 • SELECT region, COUNT(Cust_id) AS 'no_of_customers'
120 FROM cust_dimen GROUP BY region ORDER BY no_of_customers DESC LIMIT 1;
121

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	region	no_of_customers
▶	WEST	382

Result Grid

Form Editor

Result 9

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 7	21:28:36	SELECT region, COUNT(*) AS no_of_customers FROM cust_dimen GROUP BY region ORD...	8 row(s) returned	0.016 sec / 0.000 sec

Limit to 1000 rows

```

122 /* 8) Find all the customers from Atlantic region who have ever purchased 'TABLES' and the number of tables purchased
123      (display the customer name, no_of_tables purchased)*/
124
125 • SELECT customer_name C, COUNT(*) no_of_tables_purchased
126     FROM market_fact AS m
127     INNER JOIN cust_dimen c ON m.cust_id = c.cust_id
128     WHERE c.region = 'atlantic'
129     AND m.prod_id = (SELECT prod_id
130                     FROM prod_dimen
131                     WHERE product_sub_category = 'tables')
132     GROUP BY m.cust_id, c.customer_name;
133

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	C	no_of_tables_purchased
▶	ALEKSANDRA GANNAWAY	1
	ANEMONE RATNER	1
	BARRY FRANZ	1
	BECKY MARTIN	1
	BEN PETERMAN	1
	BOBBY TRAFTON	1
	BRADLEY TALBOTT	1

Result 10

×

Read Only

Output

Action Output

#

Time

Action

Message

Duration / Fetch

✓	8	21:29:07	SELECT region, COUNT(Cust_id) AS 'no_of_customers' FROM cust_dimen GROUP BY regio...	1 row(s) returned	0.016 sec / 0.000 sec
---	---	----------	--	-------------------	-----------------------

Limit to 1000 rows

```

133
134  /* 9) Find all the customers from Ontario province who own Small Business. (display the customer name, no of small business owners)*/
135
136 • SELECT Customer_Name, COUNT(Customer_Segment) AS 'no of small business owners'
137    FROM cust_dimen
138   WHERE Customer_Segment = 'SMALL BUSINESS' AND Province = 'ONTARIO' GROUP BY Customer_Name;
139
140  /* 10) Find the number and id of products sold in decreasing order of products sold (display product id, no_of_products sold)*/
141
142 • SELECT prod_id AS product_id, COUNT(*) AS no_of_products_sold
143    FROM market_fact GROUP BY prod_id ORDER BY no_of_products_sold DESC;
144

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content: ☐

	product_id	no_of_products_sold
▶	Prod_6	1225
	Prod_3	915
	Prod_4	883
	Prod_5	788
	Prod_8	758
	Prod_13	633
	Prod_1	525

Result 12
×
Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 10	21:30:17	SELECT Customer_Name, COUNT(Customer_Segment) AS 'no of small business owners' FR...	70 row(s) returned	0.015 sec / 0.000 sec

Limit to 1000 rows

```

140  /* 10) Find the number and id of products sold in decreasing order of products sold (display product id, no_of_products sold)*/
141
142  • SELECT prod_id AS product_id, COUNT(*) AS no_of_products_sold
143     FROM market_fact GROUP BY prod_id ORDER BY no_of_products_sold DESC;
144
145  /* 11) Display product Id and product sub category whose produt category belongs to Furniture and Technology.
146     The result should contain columns product id, product sub category.*/
147
148  • SELECT Prod_Id AS 'product id', Product_Sub_Category AS 'product sub category'
149     FROM prod_dimen
150     WHERE Product_Category = 'FURNITURE' OR Product_Category = 'TECHNOLOGY';
151

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content:

	product id	product sub category
▶	Prod_4	TELEPHONES AND COMMUNICATION
	Prod_5	OFFICE FURNISHINGS
	Prod_8	COMPUTER PERIPHERALS
	Prod_10	BOOKCASES
	Prod_11	TABLES
	Prod_14	COPIERS AND FAX

prod_dimen 13 x
Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 11	21:30:46	SELECT prod_id AS product_id, COUNT(*) AS no_of_products_sold FROM market_fact GR...	17 row(s) returned	0.046 sec / 0.000 sec

Limit to 1000 rows

```

147
148 • SELECT Prod_Id AS 'product id', Product_Sub_Category AS 'product sub category'
149   FROM prod_dimen
150  WHERE Product_Category = 'FURNITURE' OR Product_Category = 'TECHNOLOGY';
151
152 /* 12) Display the product categories in descending order of profits
153    (display the product category wise profits i.e. product_category, profits)*/
154
155 • SELECT p.product_category, SUM(profit) AS profits
156   FROM market_fact m
157  INNER JOIN prod_dimen p ON m.prod_id = p.prod_id GROUP BY p.product_category ORDER BY profits DESC;
158

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content: ☐

	product_category	profits
▶	TECHNOLOGY	886313.5200000014
	OFFICE SUPPLIES	524956.7699999997
	FURNITURE	75968.73000000004

Result 14
Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 12	21:31:18	SELECT Prod_Id AS 'product id', Product_Sub_Category AS 'product sub category' FROM pr...	8 row(s) returned	0.000 sec / 0.000 sec

Limit to 1000 rows

```

153      (display the product category wise profits i.e. product_category, profits)*/
154
155 • SELECT p.product_category, SUM(profit) AS profits
156      FROM market_fact m
157      INNER JOIN prod_dimen p ON m.prod_id = p.prod_id GROUP BY p.product_category ORDER BY profits DESC;
158
159 /* 13) Display the product category, product sub-category and the profit within each subcategory in three columns.*/
160
161 • SELECT p.Product_Category, p.Product_Sub_Category, m.profit
162      FROM market_fact AS m
163      INNER JOIN prod_dimen AS p ON m.prod_id = p.prod_id GROUP BY Product_Sub_Category;
164

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Product_Category	Product_Sub_Category	profit
▶	OFFICE SUPPLIES	SCISSORS, RULERS AND TRIMMERS	-30.51
	OFFICE SUPPLIES	PENS & ART SUPPLIES	4.56
	TECHNOLOGY	TELEPHONES AND COMMUNICATION	1148.9
	OFFICE SUPPLIES	PAPER	729.34
	TECHNOLOGY	OFFICE MACHINES	1219.87
	OFFICE SUPPLIES	LABELS	1.32
	OFFICE SUPPLIES	APPLIANCES	1675.98

Result 15 x

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 13	21:31:48	SELECT p.product_category, SUM(profit) AS profits FROM market_fact m INNER JOIN prod_...	3 row(s) returned	0.063 sec / 0.000 sec

Limit to 1000 rows

```

159  /* 13) Display the product category, product sub-category and the profit within each subcategory in three columns.*/
160
161  • SELECT p.Product_Category, p.Product_Sub_Category, m.profit
162     FROM market_fact AS m
163     INNER JOIN prod_dimen AS p ON m.prod_id = p.prod_id GROUP BY Product_Sub_Category;
164
165  /* 14) Display the order date, order quantity and the sales for the order.*/
166
167  • SELECT o.Order_Date, m.Order_Quantity, m.Sales
168     FROM market_fact AS m
169     INNER JOIN orders_dimen AS o ON m.ord_id = o.ord_id ORDER BY Order_Date;
170

```

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Fetch rows:

	Order_Date	Order_Quantity	Sales
▶	01-01-2009	32	180.36
	01-01-2010	6	1193.1
	01-01-2010	29	4192.88
	01-01-2010	11	447.09
	01-01-2010	43	294.13
	01-01-2010	42	161.77
	01-01-2011	18	1163.75

Result 16

Result Grid

Form Editor

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 14	21:32:15	SELECT p.Product_Category, p.Product_Sub_Category, m.profit FROM market_fact AS m IN...	17 row(s) returned	0.047 sec / 0.000 sec

Limit to 1000 rows

```

167 • SELECT o.Order_Date, m.Order_Quantity, m.Sales
168 FROM market_fact AS m
169 INNER JOIN orders_dimen AS o ON m.ord_id = o.ord_id ORDER BY Order_Date;
170
171 /* 15) Display the names of the customers whose name contains the
172 i) Second letter as 'R'
173 ii) Fourth letter as 'D' */
174
175 • SELECT Customer_Name
176 FROM cust_dimen
177 WHERE Customer_Name LIKE '_R%' OR Customer_Name LIKE '__D%';
178

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content:

Customer_Name
GRANT CARROLL
BRAD EASON
FRANK PRICE
GRANT CARROLL
BRYAN DAVIS
GRANT CARROLL
BRENDAN DODSON

cust_dimen 17
Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
15	21:32:49	SELECT o.Order_Date, m.Order_Quantity, m.Sales FROM market_fact AS m INNER JOIN or...	1000 row(s) returned	0.125 sec / 0.000 sec

Limit to 1000 rows

```

174
175 • SELECT Customer_Name
176 FROM cust_dimen
177 WHERE Customer_Name LIKE '_R%' OR Customer_Name LIKE '___D%';
178
179 /* 16) Write a SQL query to to make a list with Cust_Id, Sales, Customer Name and their region where sales are between 1000 and 5000 */
180
181 • SELECT c.Cust_Id, m.Sales, c.Customer_Name, c.Region
182 FROM cust_dimen AS c
183 INNER JOIN market_fact AS m ON m.Cust_id = c.Cust_id
184 WHERE Sales BETWEEN 1000 AND 5000 ORDER BY Sales;
185

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Fetch rows:

	Cust_Id	Sales	Customer_Name	Region
▶	Cust_572	1000.3565	LENA CREIGHTON	ONTARIO
	Cust_187	1000.78	MATT COLLINS	WEST
	Cust_1001	1001.17	SANDRA FLANAGAN	ONTARIO
	Cust_590	1001.99	PATRICIA HIRASAKI	ONTARIO
	Cust_541	1002.73	GEORGE ASHBROOK	ONTARIO
	Cust_512	1002.77	DARREN BUDD	ONTARIO
	Cust_39	1003.06	BETH PAIGE	NUNAVUT

Result 18
×
Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 16	21:33:21	SELECT Customer_Name FROM cust_dimen WHERE Customer_Name LIKE '_R%' OR Cust...	239 row(s) returned	0.015 sec / 0.000 sec

Limit to 1000 rows

```

181 • SELECT c.Cust_Id, m.Sales, c.Customer_Name, c.Region
182 FROM cust_dimen AS c
183 INNER JOIN market_fact AS m ON m.Cust_id = c.Cust_id
184 WHERE Sales BETWEEN 1000 AND 5000 ORDER BY Sales;
185
186 /* 17) Write a SQL query to find the 3rd highest sales.*/
187
188 • SELECT a.cust_id, a.sales, a.rnk AS "rank"
189 FROM (SELECT cust_id, sum(sales) sales, ROW_NUMBER() OVER (ORDER BY sum(sales) DESC ) AS rnk
190 FROM market_fact GROUP BY cust_id ) AS a
191 WHERE a.rnk = 3;
192

```

Result Grid
Filter Rows:
Export:
Wrap Cell Content:

cust_id	sales	rank
Cust_1007	72331.879999999998	3

Result 19
Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 17	21:33:56	SELECT c.Cust_Id, m.Sales, c.Customer_Name, c.Region FROM cust_dimen AS c INNER J...	1000 row(s) returned	0.015 sec / 0.016 sec

Limit to 1000 rows

```

193  /* 18) Where is the least profitable product subcategory shipped the most? For the least profitable product sub-category, display the region-wise
194      no_of_shipments and the profit made in each region in decreasing order of profits (i.e. region, no_of_shipments, profit_in_each_region) .
195      → Note: You can hardcode the name of the least profitable product subcategory */
196
197  •  SELECT p.product_sub_category, c.region, COUNT(ship_id) AS no_of_shipments, SUM(m.profit) AS profit_in_each_region
198      FROM market_fact m
199      INNER JOIN cust_dimen c ON m.Cust_id = c.Cust_id
200      INNER JOIN prod_dimen p ON m.prod_id = p.prod_id
201      WHERE p.product_sub_category = (SELECT p.product_sub_category
202                                     FROM market_fact m
203                                     JOIN prod_dimen p ON m.prod_id = p.prod_id GROUP BY p.product_sub_category ORDER BY SUM(m.profit) LIMIT 1)
204      GROUP BY c.region
205      ORDER BY SUM(m.profit);

```

Result Grid
Filter Rows:
Exports:
Wrap Cell Content:

	product_sub_category	region	no_of_shipments	profit_in_each_region
▶	TABLES	ONTARIO	79	-35948.060000000005
	TABLES	QUEBEC	47	-29957.2
	TABLES	WEST	69	-21699.79
	TABLES	ATLANTIC	44	-16559.729999999996
	TABLES	PRARIE	65	-8760.299999999997

Result 20
×
Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 18	21:34:34	SELECT a.cust_id, a.sales, a.mk AS "rank" FROM (SELECT cust_id, sum(sales) sales, ROW...	1 row(s) returned	0.062 sec / 0.000 sec