

VIEWS

1- Customer Profitability

The screenshot shows a database interface with the following details:

- Tab Bar:** Untitled (active tab) and v_customer_profitability.
- Toolbar:** Includes icons for file operations (New, Save, Print, Find, Copy, Paste, Undo, Redo), a search bar, and a "Limit to 1000 rows" button.
- Query Editor:** A code editor window containing the SQL query: `1 • SELECT * FROM Superstore.v_customer_profitability;`
- Result Grid:** A table displaying the results of the query. The columns are: Customer_ID, Customer_Name, Total_Spend, Total_Profit, and Orders.
- Data:** The result grid contains 20 rows of data, each representing a customer's total spend, profit, and number of orders. For example, the first row is AA-10315, Alex Avila, with a total spend of 5563.559999999995 and a profit of -362.869999999995.
- Bottom Bar:** Shows the view name "v_customer_profitability 1".

Customer_ID	Customer_Name	Total_Spend	Total_Profit	Orders
AA-10315	Alex Avila	5563.559999999995	-362.869999999995	5
AA-10375	Allen Arnold	1056.39	277.4	9
AA-10480	Andrew Allen	1782.870000000001	432.08	4
AA-10645	Anna Andreadi	4455.900000000015	816.139999999999	6
AB-10015	Aaron Bergman	886.150000000001	129.34	3
AB-10060	Adam Bellavance	7732.68	2043.860000000001	7
AB-10105	Adrian Barton	14355.609999999999	5438.91	9
AB-10150	Aimee Bixby	966.71	313.6599999999997	5
AB-10165	Alan Barnes	1113.85	220.8200000000002	8
AB-10255	Alejandro Ballantine	898.08	259.0200000000004	9
AB-10600	Ann Blume	1515.860000000001	-274.95	4
AC-10420	Alyssa Crouse	891.560000000001	-9.06000000000002	3
AC-10450	Amy Cox	5527.85	1366.009999999998	7
AC-10615	Ann Chong	2499.76	291.9899999999995	4
AC-10660	Anna Chung	657.310000000001	-28.70000000000003	5
AD-10180	Alan Dominguez	6100.999999999999	1867.94	7

2- Monthly Sales

Untitled | v_monthly_sales

File Save Run Stop Find Help Limit to

1 • SELECT * FROM Superstore.v_monthly_

100% 1:1

Result Grid Filter Rows: Search

Month	Total_Sales	Total_Profit
2014-01	28848.77	4505.919999999999
2014-02	12685.569999999996	2632.91
2014-03	31912.820000000003	1856.060000000000
2014-04	24426.669999999987	4562.970000000002
2014-05	29626.219999999994	3906.099999999985
2014-06	29196.89999999983	4514.119999999997
2014-07	35054.85999999998	-1812.75
2014-08	37510.80999999976	2055.260000000007
2014-09	65804.55000000002	10103.469999999985
2014-10	34432.39999999999	4037.579999999999
2014-11	64223.690000000046	6521.280000000003
2014-12	65402.09000000001	7972.639999999999
2015-01	29060.350000000013	1150.979999999998
2015-02	20690.260000000013	2163.639999999994

3 - Region Performance

The screenshot shows a MySQL Workbench interface. The title bar says "Untitled" and "v_region_performance". The toolbar includes icons for file operations, search, and refresh. A dropdown menu says "Limit to 1000 rows". The SQL pane contains the query:

```
1 •   SELECT * FROM Superstore.v_region_performance;
```

The results pane, titled "Result Grid", displays the following data:

Region	Total_Sales	Total_Profit	Total_Quant...
South	388983.5900000009	46035.9999999998	6077
West	713471.4499999976	106021.4700000003	11845
Central	497800.88	40128.9500000004	8546
East	672194.1499999971	90672.04	10281

OUTPUTS

1- Total Sales, Profit and Quantity

The screenshot shows a MySQL Workbench interface. The title bar says "Untitled". The toolbar includes icons for file operations, search, and refresh. A dropdown menu says "Limit to 1000 rows". The SQL pane contains the query:

```
59 •   SELECT
60       SUM(Sales) AS Total_Sales,
61       SUM(Profit) AS Total_Profit,
62       SUM(Quantity) AS Total_Quantity
63   FROM superstore_ascii_only;
64
```

The results pane, titled "Result Grid", displays the following data:

Total_Sales	Total_Profit	Total_Quant...
2272450.0699999593	282858.46000000037	36749

2- Sales by Category

The screenshot shows a database query editor interface. At the top, there are several icons: a folder, a floppy disk, a lightning bolt, a magnifying glass, a hand, a red circle with a plus sign, a checkmark, a cross, and a gear. To the right of these is a button labeled "Limit to 10". Below the toolbar, the SQL query is displayed:

```
67     SUM(Sales) AS Sales,  
68     SUM(Profit) AS Profit  
69     FROM superstore_ascii_only  
70     GROUP BY Category  
71     ORDER BY Sales DESC;  
72
```

Below the query, status information is shown: "100% 21:71 1 error found". Underneath, the "Result Grid" section displays the query results:

Category	Sales	Profit
Technology	835900.1399999914	145387.81000000017
Furniture	733047.059999997	16980.719999999994
Office Supplies	703502.8700000005	120489.93000000017

3 - Profit By Sub-category

The screenshot shows a MySQL Workbench interface with a query editor and a result grid.

```

73 • SELECT `Sub_Category`, SUM(Sales) AS Sales, SUM(Profit) AS Profit
74   FROM superstore_ascii_only
75   GROUP BY `Sub_Category`
76   HAVING SUM(Profit) < 0
77   ORDER BY Profit ASC;
78

```

Below the query editor, the status bar shows "100%" zoom, "21:77" time, and "1 error found".

The Result Grid displays the following data:

Sub_Category	Sales	Profit
Tables	206965.67999999988	-17725.58999999986
Bookcases	114880.05000000006	-3472.559999999977
Supplies	45952.45000000002	-1348.479999999996

4 - Sales By Region

The screenshot shows a MySQL Workbench interface with a query editor and a result grid.

```

97   SUM(Sales) AS Sales,
98   SUM(Profit) AS Profit
99   FROM superstore_ascii_only
100  GROUP BY Region
101  ORDER BY Sales DESC;
102

```

Below the query editor, the status bar shows "100%" zoom, "21:101" time, and "1 error found".

The Result Grid displays the following data:

Region	Sales	Profit
West	713471.4499999976	106021.47000000003
East	672194.1499999971	90672.04
Central	497800.88	40128.95000000004
South	388983.5900000009	46035.99999999998

5 - Top 10 profitable products

```
81     SUM(Profit) AS Total_Profit
82     FROM superstore_ascii_only
83     GROUP BY `Product Name`
84     ORDER BY Total_Profit DESC
85     LIMIT 10;
86
```

100% 10:85 1 error found

Result Grid Filter Rows: Search Export:

Product Name	Total_Profit
Canon imageCLASS 2200 Advanced Copier	25199.94
Fellowes PB500 Electric Punch Plastic Comb Bi...	7753.059999999995
Hewlett Packard LaserJet 3310 Copier	6983.88999999999
Canon PC1060 Personal Laser Copier	4570.94
HP Designjet T520 Inkjet Large Format Printer -...	4094.979999999996
Ativa V4110MDD Micro-Cut Shredder	3772.95
3D Systems Cube Printer, 2nd Generation, Mag...	3717.970000000003
Plantronics Savi W720 Multi-Device Wireless H...	3696.280000000007
Ibico EPK-21 Electric Binding System	3345.289999999995
Zebra ZM400 Thermal Label Printer	3343.529999999997

6 - Worst 10 Loss making products

The screenshot shows a MySQL query editor interface. At the top, there are several icons for file operations (New, Open, Save, Print, Find, Copy, Paste, Undo, Redo) and a "Limit to 1000 rows" button. Below the toolbar is the SQL query:

```
89     SUM(Profit) AS Total_Profit  
90     FROM superstore_ascii_only  
91     GROUP BY `Product Name`  
92     ORDER BY Total_Profit ASC  
93     LIMIT 10;  
94
```

Below the query, status information is displayed: "100%" zoom level, "10:93" timestamp, and "1 error found". The main area is titled "Result Grid" and contains a table with two columns: "Product Name" and "Total_Profit". The table lists ten products with their corresponding negative profit values.

Product Name	Total_Profit
Cubify CubeX 3D Printer Double Head Print	-8879.97
Lexmark MX611dhe Monochrome Laser Printer	-4589.97
Cubify CubeX 3D Printer Triple Head Print	-3839.99
Chromcraft Bull-Nose Wood Oval Conference T...	-2876.11
Bush Advantage Collection Racetrack Conferen...	-1934.3999999999996
GBC DocuBind P400 Electric Binding System	-1878.1699999999994
Cisco TelePresence System EX90 Videoconfere...	-1811.08
Martin Yale Chadless Opener Electric Letter Op...	-1299.19
Balt Solid Wood Round Tables	-1201.06
BoxOffice By Design Rectangular and Half-Moo...	-1148.44

7 - Customer Lifetime Value

144 COUNT(DISTINCT Order_ID) AS Orders
 145 FROM superstore_ascii_only
 146 GROUP BY Customer_ID, Customer_Name
 147 ORDER BY Total_Spend DESC
 148 LIMIT 15;
 149

100% 10:148 1 error found

Result Grid Filter Rows: Search Export: Fetch row

Customer_ID	Customer_Name	Total_Spend	Total_Profit	Orders
SM-20320	Sean Miller	25043.07	-1980.75	5
TC-20980	Tamara Chand	19017.85	8964.480000000001	5
RB-19360	Raymond Buch	15117.35	6976.09	6
TA-21385	Tom Ashbrook	14595.619999999999	4703.799999999999	4
AB-10105	Adrian Barton	14355.609999999999	5438.91	9
SC-20095	Sanjit Chand	14142.34	5757.419999999999	9
KL-16645	Ken Lonsdale	14071.919999999998	768.86	10
HL-15040	Hunter Lopez	12873.3	5622.429999999999	6
SE-20110	Sanjit Engle	12209.44	2650.669999999996	11
CC-12370	Christopher Conant	12129.08	2177.05	5
TS-21370	Todd Sumrall	11885.869999999999	2368.85	6
GT-14710	Greg Tran	11820.119999999999	2163.42	11
BM-11140	Becky Martin	11609.91	-1711.44	4
SV-20365	Seth Vernon	11420.64	1177.370000000001	10
CJ-12010	Caroline Jumper	11079.74	827.85	8

8 - Sales Over Years

193 SUM(Sales) AS Sales,
 194 SUM(Profit) AS Profit
 195 FROM superstore_ascii_only
 196 GROUP BY Year
 197 ORDER BY Year;
 198

100% 15:197 1 error found

Result Grid Filter Rows: Search

Year	Sales	Profit
2014	459125.3499999994	50855.56000000002
2015	464426.1800000005	60907.79000000007
2016	623904.0300000001	78319.66000000006
2017	724994.5099999967	92775.45

9 - Month-wise Sales Trend

The screenshot shows a database interface with a query editor and a result grid.

Query Editor:

```
113     SUM(Sales) AS Sales,
114     SUM(Profit) AS Profit
115 FROM superstore_ascii_only
116 GROUP BY Month
117 ORDER BY Month;
118
```

Result Grid:

Month	Sales	Profit
2014-01	28848.77	4505.919999999999
2014-02	12685.569999999996	2632.91
2014-03	31912.820000000003	1856.0600000000006
2014-04	24426.669999999987	4562.970000000002
2014-05	29626.219999999994	3906.099999999995
2014-06	29196.899999999983	4514.119999999997
2014-07	35054.85999999998	-1812.75
2014-08	37510.809999999976	2055.2600000000007
2014-09	65804.55000000002	10103.469999999985
2014-10	34432.3999999999	4037.579999999999
2014-11	64223.690000000046	6521.280000000003
2014-12	65402.09000000001	7972.639999999999
2015-01	29060.350000000013	1150.979999999998
2015-02	20690.260000000013	2163.639999999994
2015-03	39881.62	8930.970000000001
2015-04	36502.270000000004	5844.650000000001

10 - Average Delivery Time

The screenshot shows a MySQL Workbench interface. The top part is a query editor with the following SQL code:

```
121 AVG(DATEDIFF(`Clean  
122 FROM [REDACTED]  
123 superstore_ascii_onl  
124 GROUP BY [REDACTED]  
125 `Ship Mode`);  
126
```

The status bar at the bottom indicates "100%" completion, the time "17:125", and "1 error found". Below the editor is a "Result Grid" tab, which displays the following data:

Ship Mode	Avg_Days
Second Class	5.6071
Standard Class	11.8441
Same Day	0.5769
First Class	6.4031

11 - Best and Worst States

Limit to 1000

```

105     SUM(Sales) AS Sales,
106     SUM(Profit) AS Profit
107 FROM superstore_ascii_only
108 GROUP BY State
109 ORDER BY Profit DESC;
110
    
```

100% 22:109 1 error found

Result Grid Filter Rows: Search

State	Sales	Profit
California	450567.6300000007	74669.41000000012
New York	309453.5599999998	73507.20000000003
Washington	136590.19999999992	32976.67000000006
Michigan	75991.58000000003	24340.92000000002
Virginia	70309.08999999998	18461.07
Indiana	53474.43	18344.46000000003
Georgia	48296.3000000001	15933.68999999995
Kentucky	36591.74999999997	11199.69999999997
Minnesota	29863.14999999994	10823.22000000001
Delaware	27036.16999999995	9836.41000000003
New Jersey	34600.57999999994	9736.17000000004
Wisconsin	32091.890000000018	8391.56000000003
Rhode Isl...	22600.76	7273.190000000005
Maryland	23660.77	7010.60999999999
Massachu...	28428.20999999995	6693.81
Missouri	21557.91	6300.01000000001

12 - Discount Vs Profit Correlation check

```
Untitled
```

129 SUM(Sales) AS Sales,
130 SUM(Profit) AS Profit
131 FROM superstore_ascii_only
132 GROUP BY Discount
133 ORDER BY Discount;
134

100% 19:133 1 error found

Result Grid Filter Rows: Search

Discount	Sales	Profit
0	1072777.3199999915	317184.3499999983
0.1	54369.30000000001	9029.210000000005
0.15	27558.58999999999	1418.980000000002
0.2	756307.3699999955	89380.1099999981
0.3	103226.7599999985	-10369.340000000007
0.32	14493.44999999999	-2391.16
0.4	116345.89999999997	-23065.470000000012
0.45	5484.980000000001	-2493.12
0.5	58918.64999999997	-20506.510000000002
0.6	6237.38999999996	-5548.39999999996
0.7	40022.109999999986	-39643.83000000002
0.8	16708.250000000015	-30136.360000000033

13 - Average Order Value

```
Untitled*
```

133 ORDER BY Discount
134
135 • SELECT
136 AVG(Sales) AS
137 FROM superstore_a
138

100% 28:137 1 error found

Result Grid Filter Rows:

Avg_Order_Value
234.4182040437342

14 - Cities generating most orders/profit

The screenshot shows a MySQL Workbench interface. At the top, there's a toolbar with various icons. Below it is a code editor window containing the following SQL query:

```
185     SUM(Profit) AS Total_Profit
186     FROM superstore_ascii_only
187     GROUP BY City
188     ORDER BY Total_Profit DESC
189     LIMIT 15;
190
```

Below the code editor, a status bar displays "100% 10:189 | 1 error found". Underneath is a "Result Grid" section with a "Filter Rows:" search bar. The result grid contains the following data:

City	Total_Profit
New York City	61624.13
Los Angeles	29807.11000000002
Seattle	28869.02999999999
San Francisco	17176.67000000006
Detroit	13117.04999999997
Lafayette	10001.54000000003
Jackson	7552.66999999999
Atlanta	6993.69
Minneapolis	6824.60999999999
San Diego	6309.35000000003
Springfield	6078.08
Newark	5715.92999999998
Richmond	5553.00000000003
Providence	5498.00000000001
Columbia	5473.16000000002

15 - Market Basket (Co-purchased Items)

Untitled*

Limit to 1000 rows

```
234     AND a.Sub_Category < b.Sub_Category
235 GROUP BY Item_A, Item_B
236 ORDER BY Frequency DESC
237 LIMIT 20;
238
```

100% 1:238 | 1 error found

Result Grid Filter Rows: Search Export:

Item_A	Item_B	Frequency
Binders	Paper	241
Binders	Phones	190
Binders	Storage	185
Binders	Furnishings	173
Paper	Phones	163
Furnishings	Paper	161
Paper	Storage	159
Accessories	Binders	154
Accessories	Paper	146
Art	Binders	143
Furnishings	Phones	141
Art	Paper	140
Appliances	Binders	127
Chairs	Paper	124
Furnishings	Storage	123
Art	Phones	123

Result 14

16 - Profit - Margin

superstore_ascii_only

```

169
170     GROUP BY
171         Category
172     ORDER BY
173         Profit_Margin DESC;
174

```

100% 28:173 1 error found

Result Grid

Category	Sales	Profit	Profit Margin
Technology	835900.1399999914	145387.81000000017	0.17392963949019277
Office Supplies	703502.8700000005	120489.93000000017	0.17127141215500669
Furniture	733047.059999997	16980.71999999994	0.02316457008912915

17 - Repeat Customer Rate

```

153     (SUM(CASE WHEN cnt > 1 THEN
154     FROM (
155         SELECT Customer_ID, COUNT(*)
156         FROM superstore_ascii_only
157         GROUP BY Customer_ID
158     ) t;

```

100% 25:157 1 error found

Result Grid

Total_Customers	Repeat_Customers	Repeat_Rate
793	787	99.2400

18 - Loss due to High Discounts

The screenshot shows a MySQL Workbench interface with a query editor and a results grid.

```

203     Profit,
204     Discount
205 FROM superstore_ascii_only
206 WHERE Discount >= 0.3 AND Profit < 0
207 ORDER BY Discount DESC;
208

```

Result Grid:

Order_ID	Product Name	Sales	Profit	Discount
CA-2014-169019	GBC DocuBind P400 Electric Binding System	2177.58	-3701.89	0.8
US-2017-122714	Ibico EPK-21 Electric Binding System	1889.99	-2929.48	0.8
CA-2017-131254	Fellowes PB500 Electric Punch Plastic Comb Bi...	1525.19	-2287.78	0.8
CA-2016-130946	GBC DocuBind P400 Electric Binding System	1088.79	-1850.95	0.8
CA-2014-165309	GBC DocuBind TL300 Electric Binding System	896.99	-1480.03	0.8
CA-2017-152093	Fellowes PB500 Electric Punch Plastic Comb Bi...	762.59	-1143.89	0.8
US-2017-148551	GBC Ibimaster 500 Manual ProClick Binding Sy...	760.98	-1141.47	0.8
CA-2015-140025	Hoover Upright Vacuum With Dirt Cup	463.25	-1181.28	0.8
CA-2016-132479	GBC ProClick 150 Presentation Binding System	442.37	-729.91	0.8
US-2015-155369	Fellowes PB300 Plastic Comb Binding Machine	310.39	-512.15	0.8
CA-2014-126193	Ibico Hi-Tech Manual Binding System	304.99	-533.73	0.8
US-2017-147221	3.6 Cubic Foot Counter Height Office Refrigerator	294.62	-766.01	0.8
CA-2017-118773	GBC ProClick 150 Presentation Binding System	252.78	-417.09	0.8
CA-2017-131282	Ibico Hi-Tech Manual Binding System	243.99	-426.99	0.8
US-2014-122959	GBC DocuBind 300 Electric Binding Machine	210.39	-336.63	0.8
US-2017-119438	Ibico Hi-Tech Manual Binding System	182.99	-320.24	0.8

superstore_ascii_only 17

19 - Sales By Segment

The screenshot shows a MySQL Workbench interface with a query editor and a results grid.

```

211     SUM(Sales) AS Sales,
212     SUM(Profit) AS Profit
213 FROM superstore_ascii_only
214 GROUP BY Segment
215 ORDER BY Profit DESC;
216

```

Result Grid:

Segment	Sales	Profit
Consumer	1150166.1799999864	132669.8799999995
Corporate	696604.599999999	90366.57000000007
Home Office	425679.29000000027	59822.01000000007

20 - Most frequently ordered products

```
File Save ⚡ ⚡ 🔎 🚫 ✅ ✖️ 🌐 Limit to 10
177     COUNT(*) AS Frequency
178     FROM superstore_ascii_only
179     GROUP BY `Product Name`
180     ORDER BY Frequency DESC
181     LIMIT 15;
182

100%   10:181 | 1 error found

Result Grid Filter Rows: Search E
```

Product Name	Frequency
Staple envelope	48
Staples	46
Easy-staple paper	46
Avery Non-Stick Binders	20
Staples in misc. colors	19
Staple remover	18
KI Adjustable-Height Table	18
Storex Dura Pro Binders	17
Staple-based wall hangings	16
Situations Contoured Folding Chairs, 4/Set	15
Logitech 910-002974 M325 Wireless Mo...	15
Global High-Back Leather Tilter, Burgundy	14
GBC Premium Transparent Covers with...	14
Eldon Wave Desk Accessories	14
Global Wood Trimmed Manager's Task C...	14