

Last login: Sun Jan 4 20:03:01 on ttys000
(base) jashwanthgangiseti@Jashwanths-Mac ~ % mysql --local-infile=1 -u root

Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.44 Homebrew

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> SET GLOBAL local_infile = 1;
Query OK, 0 rows affected (0.00 sec)

mysql> SHOW VARIABLES LIKE 'local_infile';

Variable_name	Value
local_infile	ON

1 row in set (0.04 sec)

mysql> USE profit_leakage;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed

mysql> LOAD DATA LOCAL INFILE '/Users/jashwanthgangiseti/Documents/cleaned_superstore_data.csv'

mysql> LOAD DATA LOCAL INFILE '/Users/jashwanthgangiseti/Projectssssssss/Data Analytics/cleaned_superstore_data.csv'

mysql> LOAD DATA LOCAL INFILE '/Users/jashwanthgangiseti/Projectssssssss/Data Analytics/cleaned_superstore_data.csv'

mysql> LOAD DATA LOCAL INFILE '/Users/jashwanthgangiseti/Projectssssssss/Data Analytics/cleaned_superstore_data.csv'

mysql> LOAD DATA LOCAL INFILE '/Users/jashwanthgangiseti/Projectssssssss/Data Analytics/cleaned_superstore_data.csv'

Query OK, 1237 rows affected, 102 warnings (0.05 sec)
Records: 1237 Deleted: 0 Skipped: 0 Warnings: 102

mysql> SELECT COUNT(*) FROM sales_raw;

COUNT(*)
1237

1 row in set (0.00 sec)

mysql> SELECT * FROM sales_raw LIMIT 5;

row_id	order_id	order_date	ship_date	ship_mode	customer_id	customer_name	segment	country	city	state	postal_code	region	product_id	
category	sub_category	product_name	sales	quantity	discount	profit	profit_margin	loss_flag	order_year	order_m				
1798	Furniture	Bookcases	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	South	FUR-B0-1000
0240	Office Supplies	Labels	6/12/2016	16/6/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	California	90036	West	OFF-LA-1000
0577	Furniture	Tables	10/11/2015	18/10/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	FUR-TA-1000
1487	Furniture	Furnishings	6/9/2014	14/6/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-FU-1000
2365	Office Supplies	Paper	15/4/2017	20/4/2017	Standard Class	AA-10480	Andrew Allen	Consumer	United States	Concord	North Carolina	28027	South	OFF-PA-1000

5 rows in set (0.00 sec)

mysql> SELECT * FROM sales_raw LIMIT 5;

row_id	order_id	order_date	ship_date	ship_mode	customer_id	customer_name	segment	country	city	state	postal_code	region	product_id	
category	sub_category	product_name	sales	quantity	discount	profit	profit_margin	loss_flag	order_year	order_m				
1798	Furniture	Bookcases	11/8/2016	11/11/2016	Second Class	CG-12520	Claire Gute	Consumer	United States	Henderson	Kentucky	42420	South	FUR-B0-1000
0240	Office Supplies	Labels	6/12/2016	16/6/2016	Second Class	DV-13045	Darrin Van Huff	Corporate	United States	Los Angeles	California	90036	West	OFF-LA-1000
0577	Furniture	Tables	10/11/2015	18/10/2015	Standard Class	SO-20335	Sean O'Donnell	Consumer	United States	Fort Lauderdale	Florida	33311	South	FUR-TA-1000
1487	Furniture	Furnishings	6/9/2014	14/6/2014	Standard Class	BH-11710	Brosina Hoffman	Consumer	United States	Los Angeles	California	90032	West	FUR-FU-1000
2365	Office Supplies	Paper	15/4/2017	20/4/2017	Standard Class	AA-10480	Andrew Allen	Consumer	United States	Concord	North Carolina	28027	South	OFF-PA-1000

5 rows in set (0.00 sec)

mysql> DROP TABLE IF EXISTS sales;
Query OK, 0 rows affected (0.06 sec)

mysql> CREATE TABLE sales (

row_id INT,
order_id VARCHAR(50),
order_date DATE,
ship_date DATE,
ship_mode VARCHAR(50),
customer_id VARCHAR(50),
customer_name VARCHAR(100),
segment VARCHAR(50),
country VARCHAR(50),
city VARCHAR(50),
state VARCHAR(50),
postal_code VARCHAR(20),
region VARCHAR(50),
product_id VARCHAR(50),
category VARCHAR(50),
sub_category VARCHAR(50),
product_name VARCHAR(200),
sales DECIMAL(10,2),
quantity INT,

```

-> discount DECIMAL(5,2),
-> profit DECIMAL(10,2),
-> profit_margin DECIMAL(6,4),
-> loss_flag VARCHAR(10),
-> order_year INT,
-> order_month VARCHAR(20),
-> discount_band VARCHAR(20)
-> );
Query OK, 0 rows affected (0.02 sec)

```

```

mysql> INSERT INTO sales
-> SELECT
-> row_id,
-> order_id,
-> STR_TO_DATE(order_date, '%d/%m/%Y'),
-> STR_TO_DATE(ship_date, '%d/%m/%Y'),
-> ship_mode,
-> customer_id,
-> customer_name,
-> segment,
-> country,
-> city,
-> state,
-> postal_code,
-> region,
-> product_id,
-> category,
-> sub_category,
-> product_name,
-> ROUND(sales, 2),
-> quantity,
-> discount,
-> ROUND(profit, 2),
-> ROUND(profit / sales, 4),
-> CASE
-> WHEN profit < 0 THEN 'Loss'
-> ELSE 'Profit'
-> END,
-> YEAR(STR_TO_DATE(order_date, '%d/%m/%Y')),
-> MONTHNAME(STR_TO_DATE(order_date, '%d/%m/%Y')),
-> CASE
-> WHEN discount = 0 THEN '0%'
-> WHEN discount <= 0.1 THEN '0-10%'
-> WHEN discount <= 0.2 THEN '10-20%'
-> ELSE '>20%'
-> END
-> FROM sales_raw;
Query OK, 1237 rows affected (0.05 sec)
Records: 1237 Duplicates: 0 Warnings: 0

```

```
mysql> SELECT COUNT(*) FROM sales;
```

```

+-----+
| COUNT(*) |
+-----+
| 1237 |
+-----+
1 row in set (0.00 sec)

```

```
mysql> SELECT * FROM sales LIMIT 5;
```

```

+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| row_id | order_id | order_date | ship_date | ship_mode | customer_id | customer_name | segment | country | city | state | postal_code | region | product_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| discount_band |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | CA-2016-152156 | 2016-08-11 | 2016-11-11 | Second Class | CG-12520 | Claire Gute | Consumer | United States | Henderson | Kentucky | 42420 | South | FUR-BO-1000 |
1798 | Furniture | Bookcases | Bush Somerset Collection Bookcase | 261.96 | 2 | 0.00 | 41.91 | 0.1600 | Profit | 2016 | August |
| 0% |
| 3 | CA-2016-138688 | 2016-12-06 | 2016-06-16 | Second Class | DV-13045 | Darrin Van Huff | Corporate | United States | Los Angeles | California | 90036 | West | OFF-LA-1000 |
8240 | Office Supplies | Labels | Self-Adhesive Address Labels for Typewriters by Universal | 14.62 | 2 | 0.00 | 6.87 | 0.4700 | Profit | 2016 | December |
| 0% |
| 4 | US-2015-108966 | 2015-11-10 | 2015-10-18 | Standard Class | SO-20335 | Sean O'Donnell | Consumer | United States | Fort Lauderdale | Florida | 33311 | South | FUR-TA-1000 |
0577 | Furniture | Tables | Bretford CR4500 Series Slim Rectangular Table | 957.58 | 5 | 0.45 | -383.03 | -0.4000 | Loss | 2015 | November |
| >20% |
| 6 | CA-2014-115812 | 2014-09-06 | 2014-06-14 | Standard Class | BH-11710 | Brosina Hoffman | Consumer | United States | Los Angeles | California | 90032 | West | FUR-FU-1000 |
1487 | Furniture | Furnishings | Eldon Expressions Wood and Plastic Desk Accessories, Cherry Wood | 48.86 | 7 | 0.00 | 14.17 | 0.2900 | Profit | 2014 | September |
| 0% |
| 13 | CA-2017-114412 | 2017-04-15 | 2017-04-20 | Standard Class | AA-10480 | Andrew Allen | Consumer | United States | Concord | North Carolina | 28027 | South | OFF-PA-1000 |
2365 | Office Supplies | Paper | Xerox 1967 | 15.55 | 3 | 0.20 | 5.44 | 0.3500 | Profit | 2017 | April |
| 10-20% |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
5 rows in set (0.00 sec)

```

```

mysql> SELECT
-> ROUND(SUM(sales),2) AS total_sales,
-> ROUND(SUM(profit),2) AS total_profit,
-> ROUND(SUM(profit)/SUM(sales),4) AS profit_margin
-> FROM sales;

```

```

+-----+-----+-----+
| total_sales | total_profit | profit_margin |
+-----+-----+-----+
| 273172.92 | 23208.46 | 0.0850 |
+-----+-----+-----+
1 row in set (0.05 sec)

```

```

mysql> SELECT
-> COUNT(*) AS loss_orders,
-> ROUND(
-> COUNT(*) * 100.0 / (SELECT COUNT(*) FROM sales),
-> 2
-> ) AS loss_order_percentage
-> FROM sales
-> WHERE profit < 0;

```

```

+-----+-----+
| loss_orders | loss_order_percentage |
+-----+-----+
| 233 | 18.84 |
+-----+-----+
1 row in set (0.09 sec)

```

```

mysql> SELECT
-> product_name,
-> ROUND(SUM(sales),2) AS total_sales,
-> ROUND(SUM(profit),2) AS total_profit,
-> ROUND(SUM(profit)/SUM(sales),4) AS margin
-> FROM sales
-> GROUP BY product_name
-> HAVING SUM(profit) < 0
-> ORDER BY total_profit;

```

```

+-----+-----+-----+-----+
| product_name | total_sales | total_profit | margin |
+-----+-----+-----+-----+
| Cubify CubeX 3D Printer Triple Head Print | 7999.98 | -3839.99 | -0.4800 |
| Riverside Palais Royal Lawyers Bookcase, Royale Cherry Finish | 3083.43 | -1665.05 | -0.5400 |
| Chromcraft Bull-Head Oval Conference Tables & Bases | 5950.58 | -1630.98 | -0.2741 |
| Hoover Upright Vacuum With Dirt Cup | 463.25 | -1181.28 | -2.5500 |
| GBC Ibimaster 500 Manual ProClick Binding System | 1141.47 | -760.98 | -0.6667 |
| BoxOffice By Design Rectangular and Half-Moon Meeting Room Tables | 984.38 | -728.44 | -0.7400 |
| Chromcraft 48" x 96" Racetrack Double Pedestal Table | 1282.56 | -718.24 | -0.5600 |
| GBC ProClick 150 Presentation Binding System | 442.37 | -562.44 | -1.2714 |
| Bush Advantage Collection Racetrack Conference Table | 1908.94 | -526.02 | -0.2756 |
| Ibiico Hi-Tech Manual Binding System | 1006.46 | -503.23 | -0.5000 |
| Bevis Boat-Shaped Conference Table | 786.34 | -408.98 | -0.5200 |
| Bevis 44 x 96 Conference Tables | 617.70 | -407.68 | -0.6600 |
| Deflect-o RollaMat Studded, Beveled Mat for Medium Pile Carpeting | 848.52 | -361.54 | -0.4261 |
| Chromcraft Rectangular Conference Tables | 1279.63 | -341.24 | -0.2667 |
| Lexmark MarkNet N8150 Wireless Print Server | 482.34 | -337.64 | -0.7000 |
| Bretford iJust In Time Height-Adjustable Multi-Task Work Tables | 2003.52 | -325.57 | -0.1625 |
| Global High-Back Leather Filter, Burgundy | 1426.69 | -324.70 | -0.2276 |
| Eldon ClusterMat Chair Mat with Cordless Antistatic Protection | 256.74 | -312.06 | -1.2250 |
| Office Impressions End Table, 20-1/2"H x 24"W x 20"D | 1488.42 | -297.68 | -0.2000 |

```

Chromcraft Round Conference Tables	1080.60	-296.29	-0.2742
Acco 7-Outlet Masterpiece Power Center, Wihout Fax/Phone Line Protection	97.26	-243.16	-2.5001
SAFCO Boltless Steel Shelving	1349.96	-234.09	-0.1746
Honeywell Enviracaire Portable Air Cleaner for up to 8 x 10 Room	92.86	-225.56	-2.4501
O'Sullivan Plantations 2-Door Library in Landvery Oak	956.66	-225.10	-0.2353
High-Back Leather Manager's Chair	1195.92	-223.59	-0.1870
Hon 2090 iPillow Softi Series Mid Back Swivel/Tilt Chairs	1348.70	-219.16	-0.1625
SAFCO PlanMaster Boards, 60w x 37-1/2d, White Melamine	455.97	-218.87	-0.4800
Bush Advantage Collection Round Conference Table	977.96	-197.72	-0.2022
Tripp Lite Isotel 8 Ultra 8 Outlet Metal Surge	184.52	-183.10	-0.9923
Eureka Sanitaire Commercial Upright	65.28	-178.97	-2.7002
GBC VeloBinder Electric Binding Machine	254.06	-169.37	-0.6667
Apple iPhone 5	779.80	-168.96	-0.2167
Harmony Air Purifier	75.60	-166.32	-2.2000
Hon Practical Foundations 30 x 60 Training Table, Light Gray/Charcoal	375.46	-157.01	-0.4182
Fellowes Officeware Wire Shelving	646.78	-145.52	-0.2250
Bretford CR4500 Series Slim Rectangular Table	2002.21	-142.77	-0.0713
BPI Conference Tables	219.08	-131.45	-0.0000
Kensington 7 Outlet MasterPiece HOMEOFFICE Power Control Center	52.45	-131.12	-2.4999
Holmes Replacement Filter for HEPA Air Cleaner, Very Large Room, HEPA Filter	68.81	-123.86	-1.8000
GBC DocuBind 300 Electric Binding Machine	157.79	-115.72	-0.7334
Bevis Rectangular Conference Tables	145.98	-99.27	-0.6800
Atlantic Metals Mobile 2-Shelf Bookcases, Custom Colors	72.29	-98.80	-1.3667
Hon 4700 Series Mobius Mid-Back Task Chairs with Adjustable Arms	747.56	-96.11	-0.1286
Belkin 8 Outlet Surge Protector	32.78	-85.24	-2.6004
GBC Velobind Prepunched Cover Sets, Regency Series	99.85	-83.21	-0.8334
Hon 2111 Invitation Series Straight Table	517.41	-81.31	-0.1571
APC 7 Outlet Network SurgeArrest Surge Protector	32.19	-80.48	-2.5002
Safco Industrial Wire Shelving	1132.69	-77.74	-0.0686
Global Low Back Tilter Chair	302.94	-76.74	-0.2533
Balt Solid Wood Rectangular Table	408.86	-73.84	-0.1842
SAFCO PlanMaster High-Adjustable Drafting Table Base, 43w x 30d x 30-37h, Black	1945.95	-69.89	-0.0667
Acco D-Ring Binder w/Dublock	62.00	-68.84	-1.1103
Global Deluxe Steno Chair	685.12	-68.51	-0.1000
Belkin 19" Vented Equipment Shelf, Black	288.29	-68.46	-0.2375
Tenex Antistatic Computer Chair Mats	547.14	-68.39	-0.1250
Premier Elliptical Ring Binder, Black	42.62	-68.19	-1.6000
Aastra 571 VoIP phone	298.90	-67.88	-0.2333
Compact Automatic Electric Letter Opener	285.34	-64.43	-0.2250
LG Exalt	280.78	-60.84	-0.2167
Bush Andora Conference Table, Maple/Graphite Gray Finish	205.18	-58.13	-0.2833
Office Star - Contemporary Task Swivel chair with Loop Arms, Charcoal	419.14	-57.63	-0.1375
SAFCO Commercial Wire Shelving, Black	773.58	-55.26	-0.0714
Howard Miller 14-1/2" Diameter Chrome Round Wall Clock	76.73	-53.71	-0.7000
Eldon CleatMat Chair Mats for Medium Pile Carpets	44.40	-52.17	-1.1750
Global Troy Executive Leather Low-Back Tilter	701.37	-50.10	-0.0714
GBC Twin Loop Wire Binding Elements	33.28	-49.92	-1.5000
Sauder Cornerstone Collection Library	123.92	-48.95	-0.3950
Canvas Sectional Post Binders	68.74	-48.12	-0.7000
Hon Comfortask Task/Swivel Chairs	239.36	-47.87	-0.2000
Satellite Sectional Post Binders	26.05	-44.28	-1.6998
O'Sullivan Elevations Bookcase, Cherry Finish	183.37	-36.67	-0.2000
Bush Mission Pointe Library	205.33	-36.24	-0.1765
AT&T 1080 Corded phone	164.39	-35.62	-0.2167
Wilson Jones Century Plastic Molded Ring Binders	31.15	-34.89	-1.1201
Novimex Swivel Fabric Task Chair	905.88	-34.72	-0.0383
Contemporary Wood/Metal Frame	51.71	-32.32	-0.6250
Fellowes Basic Home/Office Series Surge Protectors	98.65	-30.37	-0.3079
Sauder Forest Hills Library with Doors, Woodland Oak Finish	257.57	-28.98	-0.1125
12-1/2 Diameter Round Wall Clock	47.96	-28.78	-0.6001
XI Conference Tables	567.12	-28.36	-0.0500
Cisco CP-7937G Unified IP Conference Station Phone	695.70	-27.83	-0.0400
Fellowes Premier Superior Surge Suppressor, 10-Outlet, With Phone and Remote	117.41	-27.39	-0.2333
Logitech K350 2.4GHz Wireless Keyboard	238.90	-26.88	-0.1125
GBC Durable Plastic Covers	89.01	-25.93	-0.2913
Office Star - Ergonomically Designed Knee Chair	259.14	-25.91	-0.1000
GBC Standard Recycled Report Covers, Clear Plastic Sheets	75.45	-25.45	-0.3373
Lesro Sheffield Collection Coffee Table, End Table, Center Table, Corner Table	271.21	-24.98	-0.0921
SAFCO Commercial Wire Shelving, 72h	526.66	-24.50	-0.0465
O'Sullivan Living Dimensions 5-Shelf Bookcases	176.78	-22.10	-0.1250
JBL Micro Wireless Portable Bluetooth Speaker	203.96	-21.00	-0.1030
GBC Clear Cover, 8-1/2 x 11, unpunched, 25 covers per pack	12.13	-20.62	-1.6999
GBC Linen Binding Covers	27.88	-20.45	-0.7335
1-Sound Portable Power - 8000 mAh	84.78	-20.14	-0.2376
Global Stack Chair without Arms, Black	254.60	-18.19	-0.0714
Deflect-o EconoMat Studded, No Bevel Mat for Low Pile Carpeting	132.22	-18.18	-0.1375
Hewlett-Packard Deskjet 6540 Color Inkjet Printer	821.30	-16.43	-0.0200
Eldon Base for stackable storage shelf, platinum	280.37	-15.58	-0.0556
Mediabridge Sport Armband iPhone 5s	123.88	-14.58	-0.1177
Eldon Expressions Desk Accessory, Wood Pencil Holder, Oak	19.30	-14.48	-0.7503
O'Sullivan Manor Hill 2-Door Library in Brianna Oak	307.67	-14.48	-0.0471
Hon Olson Stacker Stools	492.84	-14.08	-0.0266
Laminate Occasional Tables	369.91	-13.87	-0.0375
Premium Transparent Presentation Covers by GBC	18.88	-13.85	-0.7336
Sauder Camden County Collection Libraries, Planked Cherry Finish	195.47	-13.80	-0.0706
Martin-Yale Premier Letter Opener	123.65	-13.78	-0.1114
V7 USB Numeric Keypad	83.98	-13.65	-0.1625
Office Star - Contemporary Task Swivel Chair	155.37	-13.32	-0.0057
Carina 42"Hx23 3/4"W Media Storage Unit	145.76	-12.96	-0.0889
Executive Impressions 16-1/2" Circular Wall Clock	32.06	-12.83	-0.4002
GBC Instant Index System for Binding Systems	18.65	-12.43	-0.6665
Novimex Fabric Task Chair	195.14	-12.20	-0.0625
Padded Folding Chairs, Black, 4/Carton	396.00	-11.34	-0.0286
DAX Copper Panel Document Frame, 5 x 7 Size	25.16	-11.32	-0.4499
Cardinal EasyOpen D-Ring Binders	71.29	-10.97	-0.1539
Fellowes Bankers Box Stor/Drawer Steel Plus	422.14	-9.59	-0.0227
Macally Suction Cup Mount	38.24	-9.56	-0.2500
Motorola HK250 Universal Bluetooth Headset	216.11	-9.19	-0.0425
Global Task Chair, Black	81.42	-9.16	-0.1125
ARKON Windshield Dashboard Air Vent Car Mount Holder	40.68	-9.15	-0.2249
GBC Instant Report Kit	7.12	-9.05	-1.2711
Bevis Round Conference Table Top & Single Column Base	453.66	-8.78	-0.0194
Avery 3 1/2" Diskette Storage Pages, 10/Pack	81.43	-8.77	-0.1077
Insertable Tab Post Binder Dividers	29.67	-8.58	-0.2892
Sauder Inglewood Library Bookcases	649.73	-8.55	-0.0132
Eldon 100 Class Desk Accessories	12.13	-8.49	-0.6999
Acco Translucent Poly Ring Binders	11.23	-8.24	-0.7337
Cardinal Hold-It CD Pocket	4.79	-7.98	-1.6493
Cisco SPAS00G	39.59	-7.26	-0.1834
Anker 36W 4-Port USB Wall Charger Travel Power Adapter for iPhone 5s Sc 5	107.95	-7.19	-0.0666
Wilson Jones Hanging Recycled Pressboard Data Binders	8.90	-6.53	-0.7337
Holmes Odor Grabber	51.91	-6.05	-0.1165
Global Leather and Oak Executive Chair, Black	421.37	-6.02	-0.0143
Avery Poly Binder Pockets	12.89	-5.72	-0.4438
Wilson Jones Custom Binder Spines & Labels	8.16	-5.71	-0.6998
Sauder Barrister Bookcases	388.70	-4.86	-0.0125
Avery Durable Slant Ring Binders	3.17	-4.75	-1.4984
Avery Durable Slant Ring Binders With Label Holder	6.27	-4.60	-0.7337
Eureka Disposable Bags for Sanitaire Vibra Groomer I Upright Vac	1.62	-4.47	-2.7593
Flexible Leather- Look Classic Collection Ring Binder	5.68	-3.79	-0.6673
Round Ring Binders	2.08	-3.43	-1.6490
Carina Double Wide Media Storage Towers in Natural & Black	307.72	-3.24	-0.0105
Global Value Mid-Back Manager's Chair, Gray	407.97	-3.04	-0.0075
Avery Hidden Tab Dividers for Binding Systems	1.79	-3.04	-1.6953
Microsoft Natural Keyboard Elite	47.90	-2.99	-0.0624
Wilson Jones Easy Flow II Sheet Lifters	2.16	-2.52	-1.1667
Accohide Poly Flexible Ring Binders	3.37	-2.24	-0.6647
Computer Printout Index Tabs	1.34	-2.15	-1.6045
Economy Binders	1.25	-1.93	-1.5440
Avery Durable Slant Ring Binders, No Labels	2.39	-1.83	-0.7657
Hon 61000 Series Interactive Training Tables	71.89	-1.78	-0.0250
Staple remover	8.72	-1.75	-0.2007
Wilson Jones Suede Grain Vinyl Binders	2.50	-1.75	-0.7000
Wilson Jones Dublock D-Ring Binders	2.03	-1.35	-0.6650
Perma STOR-ALL Hanging File Box, 13 1/8"W x 12 1/4"D x 10 1/2"H	33.49	-1.26	-0.0376
Avery Binder Labels	1.17	-0.86	-0.7350
GBC Standard Plastic Binding Systems Combs	35.40	-0.71	-0.0201
Hoover Portapower Portable Vacuum	29.57	-0.67	-0.0227
Pressboard Covers with Storage Hooks, 9 1/2" x 11", Light Blue	27.99	-0.64	-0.0229
Cush Cases Heavy Duty Rugged Cover Case for Samsung Galaxy S5 - Purple	2.97	-0.64	-0.2155
ACCOHIDE 3-Ring Binder, Blue, 1"	14.87	-0.45	-0.0303
Acco Suede Grain Vinyl Round Ring Binder	5.56	-0.44	-0.0791

161 rows in set (0.01 sec)

mysql> SELECT

```

-> category,
-> sub_category,
-> ROUND(SUM(sales),2) AS sales,
-> ROUND(SUM(profit),2) AS profit,
-> ROUND(SUM(profit)/SUM(sales),4) AS margin
-> FROM sales
-> GROUP BY category, sub_category
-> ORDER BY margin;

```

category	sub_category	sales	profit	margin
Technology	Machines	16543.21	-3893.59	-0.2354
Furniture	Tables	33204.37	-5882.10	-0.1771
Furniture	Bookcases	16318.58	-704.73	-0.0432
Office Supplies	Supplies	692.21	-25.82	-0.0373
Office Supplies	Appliances	12059.39	-92.41	-0.0077
Office Supplies	Storage	21820.96	1639.70	0.0751
Furniture	Chairs	41823.85	3672.06	0.0878
Furniture	Furnishings	12519.54	1407.01	0.1124
Technology	Phones	41913.53	5120.71	0.1222
Office Supplies	Binders	17669.58	2593.98	0.1468
Office Supplies	Art	4669.10	943.33	0.2020
Technology	Accessories	16163.31	4618.49	0.2857
Technology	Copiers	24399.73	7984.94	0.3273
Office Supplies	Fasteners	284.41	105.95	0.3725
Office Supplies	Envelopes	2659.63	1151.32	0.4329
Office Supplies	Paper	8747.46	3792.15	0.4335
Office Supplies	Labels	1684.06	777.47	0.4617

17 rows in set (0.00 sec)

```

mysql> SELECT
-> region,
-> ROUND(SUM(sales),2) AS sales,
-> ROUND(SUM(profit),2) AS profit,
-> ROUND(SUM(profit)/SUM(sales),4) AS margin
-> FROM sales
-> GROUP BY region
-> ORDER BY sales DESC;

```

region	sales	profit	margin
West	76268.48	11678.52	0.1531
Central	74452.94	3928.79	0.0528
East	64320.85	6092.38	0.0947
South	58130.65	1508.77	0.0260

4 rows in set (0.00 sec)

```

mysql> SELECT
-> discount_band,
-> ROUND(SUM(sales),2) AS sales,
-> ROUND(SUM(profit),2) AS profit,
-> ROUND(SUM(profit)/SUM(sales),4) AS margin
-> FROM sales
-> GROUP BY discount_band
-> ORDER BY discount_band;

```

discount_band	sales	profit	margin
>20%	54403.30	-21933.26	-0.4032
0-10%	7200.88	1240.32	0.1722
0%	109118.07	30291.59	0.2776
10-20%	102450.67	13609.81	0.1328

4 rows in set (0.00 sec)

```

mysql> SELECT
-> product_name,
-> SUM(sales) AS sales,
-> SUM(profit) AS profit
-> FROM sales
-> GROUP BY product_name
-> HAVING SUM(sales) > (
-> SELECT AVG(sales) FROM sales
-> )
-> AND SUM(profit) < 0;

```

product_name	sales	profit
Bretford CR4500 Series Slim Rectangular Table	2002.21	-142.77
Riverside Palais Royal Lawyers Bookcase, Royale Cherry Finish	3003.43	-1665.05
Eldon Base for stackable storage shelf, platinum	280.37	-15.58
Global Value Mid-Back Manager's Chair, Gray	407.97	-3.04
High-Back Leather Manager's Chair	1195.92	-223.59
Safco Industrial Wire Shelving	1132.69	-77.74
Novimex Swivel Fabric Task Chair	905.88	-34.72
Logitech K350 2.4Ghz Wireless Keyboard	238.90	-26.88
Bevis 44 x 96 Conference Tables	617.70	-407.68
Padded Folding Chairs, Black, 4/Carton	396.80	-11.34
BoxOffice By Design Rectangular and Half-Moon Meeting Room Tables	984.38	-728.44
Global Low Back Tilter Chair	302.94	-76.74
Bush Advantage Collection Round Conference Table	977.96	-197.72
GBC VeloBinder Electric Binding Machine	254.86	-169.37
Aastra 57i VoIP phone	290.90	-67.88
Sauder Barrister Bookcases	388.70	-4.86
Office Impressions End Table, 20-1/2"H x 24"W x 20"D	1488.42	-297.68
Hon Practical Foundations 30 x 60 Training Table, Light Gray/Charcoal	375.46	-157.01
Lexmark MarkNet N8150 Wireless Print Server	482.34	-337.64
GBC ProClick 150 Presentation Binding System	442.37	-562.44
Global Deluxe Steno Chair	685.12	-68.51
Chromcraft Rectangular Conference Tables	1279.63	-341.24
Hon 4700 Series Mobius Mid-Back Task Chairs with Adjustable Arms	747.56	-95.11
Eldon ClusterMat Chair Mat with Cordless Antistatic Protection	254.74	-312.06
SAFCO Boltless Steel Shelving	1340.96	-234.09
Balt Solid Wood Rectangular Table	400.86	-73.84
Fellowes Officeware Wire Shelving	646.78	-145.52
Global Troy Executive Leather Low-Back Tilter	701.37	-50.10
Cubify CubeX 3D Printer Triple Head Print	7999.90	-3839.99
Laminate Occasional Tables	369.91	-13.87
Chromcraft Bull-Nose Wood Oval Conference Tables & Bases	5950.58	-1630.90
Carina Double Wide Media Storage Towers in Natural & Black	307.72	-3.24
KI Conference Tables	567.12	-28.36
GBC Ibimaster 500 Manual ProClick Binding System	1141.47	-760.98
Lesro Sheffield Collection Coffee Table, End Table, Center Table, Corner Table	271.21	-24.98
Bevis Boat-Shaped Conference Table	786.34	-408.90
Deflect-o RollaMat Studded, Beveled Mat for Medium Pile Carpeting	848.52	-361.54
Global Stack Chair without Arms, Black	254.60	-18.19
Chromcraft Round Conference Tables	1080.60	-296.29
SAFCO Commercial Wire Shelving, 72h	526.66	-24.50
Fellowes Bankers Box Stor/Drawer Steel Plus	422.14	-9.59
SAFCO Commercial Wire Shelving, Black	773.58	-55.26
Cisco CP-7937G Unified IP Conference Station Phone	695.70	-27.83
Global High-Back Leather Tilter, Burgundy	1426.69	-324.70
Belkin 19" Vented Equipment Shelf, Black	288.29	-68.46
Sauder Ingelwood Library Bookcases	649.73	-8.55
Bush Advantage Collection Racetrack Conference Table	1908.94	-526.02
O'Sullivan Manor Hill 2-Door Library in Brianna Oak	307.67	-14.48
SAFCO PlanMaster Height-Adjustable Drafting Table Base, 43w x 30d x 30-37h, Black	1048.35	-69.89
Apple iPhone 5	779.80	-168.96
Sauder Forest Hills Library with Doors, Woodland Oak Finish	257.67	-28.98
Ibico Hi-Tech Manual Binding System	1006.46	-503.23
Office Star - Ergonomically Designed Knee Chair	259.14	-25.91
Tenex Antistatic Computer Chair Mats	547.14	-68.39
O'Sullivan Plantations 2-Door Library in Landvery Oak	956.66	-225.10
Hon Olson Stacker Stools	492.84	-14.88
Hon 2090 iPlillow Softi Series Mid Back Swivel/Tilt Chairs	1340.70	-219.16
Hewlett-Packard Deskjet 6540 Color Inkjet Printer	821.30	-16.43
Bretford iJust In Time Height-Adjustable Multi-Task Work Tables	2003.52	-325.57
Chromcraft 48" x 96" Racetrack Double Pedestal Table	1282.56	-718.24
Compact Automatic Electric Letter Opener	286.34	-64.43
Bevis Round Conference Table Top & Single Column Base	453.66	-8.78
Office Star - Contemporary Task Swivel chair with Loop Arms, Charcoal	419.14	-57.63
Hoover Upright Vacuum With Dirt Cup	463.25	-1181.28
LG Exalt	200.78	-60.84
SAFCO PlanMaster Boards, 60w x 37-1/2d, White Melamine	455.97	-218.87

Global Leather and Oak Executive Chair, Black	421.37	-6.02	
Hon 2111 Invitation Series Straight Table	517.41	-81.31	
Hon Comfortask Task/Swivel Chairs	239.36	-47.87	

69 rows in set (0.01 sec)

mysql>