

new ×

File Edit View Query Database Server Tools Scripting Help

Navigator DAY 2 DAY1\* DAY3\* DAY 4 DAY 5\* walmart\* × walmart 2

SCHEMAS

Filter objects

- student
- student
- sys
- walmart
  - Tab
  - View
  - Sto
  - Fun

Admin

Information

No object selected

```
1 #-----WALMART SALES DATA ANALYSIS-----
2 #-----PART-1(Easy)-----
3
4 • CREATE DATABASE IF NOT EXISTS WalmartSalesData;
5 • USE WalmartSalesData;
6
7 • CREATE TABLE IF NOT EXISTS sales(
8     invoice_id VARCHAR(30) PRIMARY KEY NOT NULL,
9     branch VARCHAR(5) NOT NULL,
10    city VARCHAR(30) NOT NULL,
11    customer_type VARCHAR(30) NOT NULL,
12    gender VARCHAR(10) NOT NULL,
13    product_line VARCHAR(100) NOT NULL,
14    unit_price DECIMAL(10,2) NOT NULL,
15    quantity INT NOT NULL,
16    VAT FLOAT(6,4) NOT NULL,
17    total DECIMAL(10,2) NOT NULL,
18    date DATE ,
19    time TIME NOT NULL,
20    payment_method VARCHAR(30) NOT NULL,
21    cogs DECIMAL(10,2) NOT NULL,
22    gross_margin_percentage FLOAT(11,9) NOT NULL,
23    gross_income DECIMAL(10,2) NOT NULL,
```

SQLAdditions

Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Context Help Snippets

Output

Action Output



The screenshot displays the SQL Developer environment. The main window shows a SQL script with the following content:

```

27  #-----
28  # -----FEATURE ENGINEERING-----
29  # -----ADD A NEW COLUMN "time_of_day"-----
30  ● SELECT time,
31  ( CASE
32  WHEN time BETWEEN "00:00:00" AND "12:00:00" THEN "Morning"
33  WHEN time BETWEEN "12:01:00" AND "16:00:00" THEN "Afternoon"
34  WHEN time BETWEEN "16:01:00" AND "20:00:00" THEN "Evening"
35  ELSE "Night"
36  END
37  ) AS time_of_day FROM sales;
38  ● ALTER TABLE sales ADD COLUMN time_of_day VARCHAR(10);
39  ● UPDATE sales SET time_of_day =
40  (CASE
41  WHEN time BETWEEN "00:00:00" AND "12:00:00" THEN "Morning"
42  WHEN time BETWEEN "12:01:00" AND "16:00:00" THEN "Afternoon"
43  WHEN time BETWEEN "16:01:00" AND "20:00:00" THEN "Evening"
44  ELSE "Night"
45  END
46  );



```

The interface includes a sidebar on the left with a schema tree showing the 'walmart' database and its tables. A toolbar at the top provides various SQL development tools. A context help panel on the right displays a message about automatic context help being disabled. The bottom section shows the 'Output' window with a table structure for 'Action Output'.

[illegible]



SQLAdditions :.....

◀ ▶ |   | Jump to

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Context Help Snippets



new x

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Admin

Information:

No object selected

```
80 # What is the most selling product line?
81 • SELECT DISTINCT product_line,COUNT(product_line) AS no_of_product_line
82 FROM sales
83 GROUP BY product_line
84 ORDER BY no_of_product_line DESC;
85
86 # What is the total revenue by month?
87 • SELECT month_name,SUM(total) AS total_revenue
88 FROM sales
89 GROUP BY month_name
90 ORDER BY total_revenue DESC;
91
92 # What month had the largest COGS?
93 • SELECT month_name,MAX(cogs) AS largest_cogs
94 FROM sales
95 GROUP BY month_name
96 ORDER BY largest_cogs DESC;
97
98 # What product line had the largest revenue?
99 • SELECT product_line,SUM(total) AS sum_total_revenue,MAX(total) AS largest_revenue
100 FROM sales
101 GROUP BY product_line
102 ORDER BY sum_total_revenue ASC;
103
```

Limit to 1000 rows

SQLAdditions

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Context Help Snippets

Output

Object Action Output



SQLAdditions

◀ ▶ |   | Jump to

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Context Help   Snippets

new x

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Admin

Information:

No object selected

Object

Limit to 1000 rows

```
123
124 # Which branch sold more products than average product sold?
125 • SELECT branch,city,quantity
126 FROM sales
127 GROUP BY branch,city,quantity
128 HAVING SUM(quantity) > (SELECT AVG(quantity) FROM sales);
129
130 # What is the most common product line by gender?
131 • SELECT gender,COUNT(gender) AS cnt_gender,product_line
132 FROM sales
133 GROUP BY gender,product_line
134 ORDER BY cnt_gender DESC;
135
136 # What is the average rating of each product line?
137 • SELECT product_line,AVG(rating) AS avg_rating
138 FROM sales
139 GROUP BY product_line
140 ORDER BY avg_rating DESC;
```

SQLAdditions

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Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------



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new x

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Admin

Information:

No object selected

Object

Limit to 1000 rows

```
162 # Which customer type pays the most in VAT?
163 • SELECT customer_type,ROUND(MAX(VAT),3) AS largest_tax
164 FROM sales
165 GROUP BY customer_type
166 ORDER BY largest_tax DESC;
167
168 #-----Customer-----
169
170 # How many unique customer types does the data have?
171 • SELECT DISTINCT customer_type FROM sales ;
172
173 # How many unique payment methods does the data have?
174 • SELECT DISTINCT payment_method FROM sales ;
175
176 # What is the most common customer type?
177 • SELECT customer_type,COUNT(*) AS cnt
178 FROM sales
179 GROUP BY customer_type
180 ORDER BY cnt ASC ;
```

SQLAdditions

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Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

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Information:

No object selected

Limit to 1000 rows

```
182 # Which customer type buys the most?
183 • SELECT customer_type,COUNT(*),SUM(quantity) AS qty
184 FROM sales
185 GROUP BY customer_type
186 ORDER BY qty DESC;
187
188 # What is the gender of most of the customers?
189 • SELECT customer_type,COUNT(*),gender
190 FROM sales
191 GROUP BY customer_type,gender;
192
193 # What is the gender distribution per branch?
194 • SELECT branch,COUNT(*),gender
195 FROM sales
196 GROUP BY branch,gender;
197
198 # Which time of the day do customers give most ratings?
199 • SELECT customer_type,rating,COUNT(*) AS cnt,time_of_day
200 FROM sales
201 GROUP BY customer_type,rating,time_of_day
202 ORDER BY cnt DESC;
```

SQLAdditions

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Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
---	------	--------	---------	------------------

Objec



SQLAdditions

◀ ▶ | ⓘ ⚡ ⓘ | Jump to

**Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.**

Context Help Snippets

The screenshot displays the MySQL Workbench application window. The top menu bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. Below the menu is a toolbar with various icons for file operations, database management, and query execution. The main workspace is divided into three panes:

- Navigator:** Shows a tree view of the database schema. The 'walmart' database is selected, showing tables like 'Tab', 'View', 'Sto', and 'Fun'. A message at the bottom of this pane states 'No object selected'.
- SQL Editor:** Contains two SQL queries. The first query is a comment-based header for 'WALMART SALES DATA ANALYSIS'. The second query is a SELECT statement that identifies peak sales time slots for each branch. The third query is a SELECT statement that calculates the average gross margin by branch and product line for each month.
- SQLAdditions:** A panel on the right side of the editor that displays context help. It contains the text: 'Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.'

The bottom of the window features an 'Output' pane, which is currently empty. The status bar at the very bottom shows 'Objec' and a refresh icon.



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Admin

Information:

No object selected

```
24 # Find the Most Popular Payment Method by Gender and City
25 • SELECT gender,city,payment_method,
26     COUNT(*) AS payment_method_count
27 FROM sales
28 GROUP BY gender, city,payment_method
29 ORDER BY gender, city, payment_method_count DESC;
30
31 # Determine the Variance in Customer Ratings for Each Product Line
32 • SELECT product_line,
33     VARIANCE(rating) AS rating_variance # computes the variance of a numeric column
34 FROM sales
35 GROUP BY product_line
36 ORDER BY rating_variance DESC;
37
38 # Calculate Monthly Sales Growth Rate for Each Branch
39 • SELECT
40     branch_id,
41     DATE_TRUNC('month', sale_date) AS sale_month,
42     SUM(sale_amount) AS monthly_sales,
43     LAG(SUM(sale_amount), 1) OVER (PARTITION BY branch_id ORDER BY DATE_TRUNC('month', sale_date)) AS prev_month_sales,
44     (SUM(sale_amount) - LAG(SUM(sale_amount), 1) OVER (PARTITION BY branch_id ORDER BY DATE_TRUNC('month', sale_date))) /
45     LAG(SUM(sale_amount), 1) OVER (PARTITION BY branch_id ORDER BY DATE_TRUNC('month', sale_date)) * 100 AS growth_rate
```

SQLAdditions

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Context Help Snippets

Output