

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

Tables

sales

Views

Stored Procedures

Functions

SQL File 3" ×

Limit to 1200000 row

```

22     gross_income DECIMAL(15,4),
23     rating DECIMAL(5,3)
24   );
25
26 •   SELECT * FROM sales;
27
28

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid

invoice_id	branch	city	customer_type	gender	product_line	unit_price	quantity	vat	total	date	time	payment	cogs	gross_margin_pct	gross_income
HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL	HULL

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar PK
branch	varchar
city	varchar
customer_type	varchar
gender	varchar
product_line	varchar
unit_price	decimal
quantity	int
vat	decimal
total	decimal
date	date
time	time
payment	varchar
cogs	decimal
gross_margin_pct	decimal
gross_income	decimal
rating	decimal

sales 1 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	06:44:56	USE walmart	0 row(s) affected	0.000 sec
4	06:45:16	CREATE TABLE sales (invoice_id VARCHAR(40) NOT NULL PRIMARY KEY, branch VARCHAR...)	0 row(s) affected	0.031 sec
5	06:46:12	SELECT * FROM sales LIMIT 0, 1200000	0 row(s) returned	0.000 sec / 0.000 sec
6	06:47:10	SHOW SESSION VARIABLES LIKE lower_case_table_names'	OK	0.000 sec
7	06:47:10	SHOW DATABASES	OK	0.000 sec
8	06:47:13	SHOW SESSION VARIABLES LIKE lower_case_table_names'	OK	0.000 sec
9	06:47:13	SHOW COLUMNS FROM `walmart`.`sales`	OK	0.000 sec
10	06:47:20	PREPARE stmt FROM 'INSERT INTO `walmart`.`sales`(`invoice_id`, `branch`, `city`, `customer_type`, `gender`, `product_line`, `unit_price`, `quantity`, `vat`, `total`, `date`, `time`, `payment`, `cogs`, `gross_margin_pct`, `gross_income`) VALUES (?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?,?)';	OK	0.000 sec
11	06:47:23	DEALLOCATE PREPARE stmt	OK	0.000 sec

Object Info Session

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

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator: Schemas Tables Views Stored Procedures Functions

SCHEMAS: Filter objects

Tables: sales

SQL File 3* ×

```

rating DECIMAL(5,3)
);
SELECT * FROM sales;
SELECT * FROM sales;

```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid | Form Editor | Field Types | Context Help | Snippets

invoice_id	branch	city	customer_type	gender	product_line	unit_price	quantity	vat	total	date	time
101-17-6199	A	Yangon	Normal	Male	Food and beverages	45.79	7	16.0265	336.5565	2019-03-13 00:00:00	19:44:00
101-81-4070	C	Naypyitaw	Member	Female	Health and beauty	62.82	2	6.2820	131.9220	2019-01-17 00:00:00	12:36:00
102-06-2002	C	Naypyitaw	Member	Male	Sports and travel	25.25	5	6.3125	132.5625	2019-03-20 00:00:00	17:52:00
102-77-2261	C	Naypyitaw	Member	Male	Health and beauty	65.31	7	22.8585	480.0285	2019-03-05 00:00:00	18:02:00
105-10-6182	A	Yangon	Member	Male	Fashion accessories	21.48	2	2.1480	45.1080	2019-02-27 00:00:00	12:22:00
105-31-1824	A	Yangon	Member	Male	Sports and travel	69.52	7	24.3320	510.9720	2019-02-01 00:00:00	15:10:00
106-35-6779	A	Yangon	Member	Male	Home and lifestyle	44.34	2	4.4340	93.1140	2019-03-27 00:00:00	11:26:00
109-28-2512	B	Mandalay	Member	Female	Fashion accessories	97.61	6	29.2830	614.9430	2019-01-07 00:00:00	15:01:00
109-86-4363	B	Mandalay	Member	Female	Sports and travel	60.08	7	21.0280	441.5880	2019-02-14 00:00:00	11:36:00
110-06-6239	C	Naypyitaw	Normal	Female	Food and beverages	30.12	6	11.8200	240.0000	2019-03-15 00:00:00	20:19:00

Output

#	Time	Action	Message	Duration / Fetch
4	06:45:16	CREATE TABLE sales (invoice_id VARCHAR(40) NOT NULL PRIMARY KEY, branch VARCHAR...	0 row(s) affected	0.031 sec
5	06:46:12	SELECT * FROM sales LIMIT 0, 1200000	0 row(s) returned	0.000 sec / 0.000 sec
6	06:47:10	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
7	06:47:10	SHOW DATABASES	OK	0.000 sec
8	06:47:13	SHOW SESSION VARIABLES LIKE 'lower_case_table_names'	OK	0.000 sec
9	06:47:13	SHOW COLUMNS FROM 'walmart'.sales'	OK	0.000 sec
10	06:47:20	PREPARE stmt FROM 'INSERT INTO `walmart`.`sales` (invoice_id,branch,city,customer_type)'...	OK	0.000 sec
11	06:47:23	DEALLOCATE PREPARE stmt	OK	0.000 sec
12	07:04:41	SELECT * FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.016 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 ×

File Edit View **Query** Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

- Tables
 - sales
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Table: sales

Columns:

Column	Type	PK
invoice_id	varchar	PK
branch	varchar	
city	varchar	
customer_type	varchar	
gender	varchar	
product_line	varchar	
unit_price	decimal	
quantity	int	
vat	decimal	
total	decimal	
date	datetime	
time	time	
payment	varchar	
cogs	decimal	
gross_margin_pct	decimal	
gross_income	decimal	
rating	decimal	

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

Result 3 × Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
6	06:47:10	SHOW SESSION VARIABLES LIKE lower_case_table_names'	OK	0.000 sec
7	06:47:10	SHOW DATABASES	OK	0.000 sec
8	06:47:13	SHOW SESSION VARIABLES LIKE lower_case_table_names'	OK	0.000 sec
9	06:47:13	SHOW COLUMNS FROM `walmart`.`sales`	OK	0.000 sec
10	06:47:20	PREPARE stmt FROM 'INSERT INTO `walmart`.`sales`(`invoice_id`,`branch`,`city`,`customer_type`,`gen...	OK	0.000 sec
11	06:47:23	DEALLOCATE PREPARE stmt	OK	0.000 sec
12	07:04:41	SELECT * FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.016 sec
13	07:07:35	SELECT time, (CASE WHEN `time` BETWEEN "00:00:00" AND "12:00:00" THEN "Morning" WHEN `time` BETWEEN "12:01:00" AND "16:00:00" THEN "Afternoon" ELSE "Evening"	1000 row(s) returned	0.000 sec / 0.000 sec
14	07:07:35	ALTER TABLE sales ADD COLUMN time_of_day VARCHAR(20)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec

Object Info Session

MySQL Workbench

Local instance MySQL800 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

walmart Tables

sales Views

Stored Procedures Functions

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar
branch	PK
city	varchar
customer_type	varchar
gender	varchar
product_line	varchar
unit_price	decimal
quantity	int
vat	decimal
total	decimal
date	date
time	time
payment	varchar
cogs	decimal
gross_margin_pct	decimal
gross_income	decimal
rating	decimal

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

```

58     WHEN `time` BETWEEN "00:00:00" AND "12:00:00" THEN "Morning"
59     WHEN `time` BETWEEN "12:01:00" AND "16:00:00" THEN "Afternoon"
60     ELSE "Evening"
61   END
62 }
63
64

```

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

date	day_name
2019-03-13 00:00:00	Wednesday
2019-01-17 00:00:00	Thursday
2019-03-20 00:00:00	Wednesday
2019-03-05 00:00:00	Tuesday
2019-02-27 00:00:00	Wednesday
2019-02-01 00:00:00	Friday
2019-03-27 00:00:00	Wednesday
2019-01-07 00:00:00	Monday
2019-02-14 00:00:00	Thursday
2019-03-25 00:00:00	Monday
2019-01-21 00:00:00	Tuesday

Result 4 × Read Only

Output

Action Output	#	Time	Action	Message	Duration / Fetch
SHOW COLUMNS FROM 'walmart'.sales'	9	06:47:13	SHOW COLUMNS FROM 'walmart'.sales'	OK	0.000 sec
PREPARE strm FROM INSERT INTO 'walmart'.sales('invoice_id','branch','city','customer_type','...	10	06:47:20	PREPARE strm FROM INSERT INTO 'walmart'.sales('invoice_id','branch','city','customer_type','...	OK	0.000 sec
DEALLOCATE PREPARE strm	11	06:47:23	DEALLOCATE PREPARE strm	OK	0.000 sec
SELECT * FROM sales LIMIT 0, 1200000	12	07:04:41	SELECT * FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.016 sec
ALTER TABLE sales ADD COLUMN time_of_day VARCHAR(20)	13	07:07:35	ALTER TABLE sales ADD COLUMN time_of_day VARCHAR(20)	1000 row(s) returned	0.000 sec / 0.000 sec
ALTER TABLE sales ADD COLUMN day_name VARCHAR(10)	14	07:07:35	ALTER TABLE sales ADD COLUMN day_name VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
SELECT date, DAYNAME(date) AS day_name FROM sales LIMIT 0, 1200000	15	07:08:53	SELECT date, DAYNAME(date) AS day_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
ALTER TABLE sales SET day_name = DAYNAME(date)	16	07:08:53	ALTER TABLE sales SET day_name = DAYNAME(date)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
UPDATE sales SET day_name = DAYNAME(date)	17	07:08:53	UPDATE sales SET day_name = DAYNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE...	0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- Filter objects
- walmart
 - Tables
 - sales
 - Views
 - Stored Procedures
 - Functions

Administration Schemas

Information

Table: sales

Columns:

Column Name	Type	PK
invoice_id	varchar	PK
branch	varchar	
city	varchar	
customer_type	varchar	
gender	varchar	
product_line	varchar	
unit_price	decimal	
quantity	int	
vat	decimal	
total	decimal	
date	datetime	
time	time	
payment	varchar	
cogs	decimal	
gross_margin_pct	decimal	
gross_income	decimal	
rating	decimal	

Result Grid

```

70 • ALTER TABLE sales ADD COLUMN month_name VARCHAR(10);
71
72 • UPDATE sales
73     SET month_name = MONTHNAME(date);
74
75

```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

date	month_name
2019-03-13 00:00:00	March
2019-01-17 00:00:00	January
2019-03-20 00:00:00	March
2019-03-05 00:00:00	March
2019-02-27 00:00:00	February
2019-02-01 00:00:00	February
2019-03-27 00:00:00	March
2019-01-07 00:00:00	January
2019-02-14 00:00:00	February
2019-03-25 00:00:00	March
2019-01-20 00:00:00	January

Result 5 × Read Only Context Help Snippets

Action Output

#	Time	Action	Message	Duration / Fetch
12	07:04:41	SELECT * FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.016 sec
13	07:07:35	SELECT time, (CASE WHEN time BETWEEN "00:00:00" AND "12:00:00" THEN "Morning" WHEN...	1000 row(s) returned	0.000 sec / 0.000 sec
14	07:07:35	ALTER TABLE sales ADD COLUMN time_of_day VARCHAR(20)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
15	07:08:53	SELECT date, DAYNAME(date) AS day_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
16	07:08:53	ALTER TABLE sales ADD COLUMN day_name VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
17	07:08:53	UPDATE sales SET day_name = DAYNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE... 0.000 sec	
18	07:10:02	SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
19	07:10:02	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
20	07:10:02	UPDATE sales SET month_name = MONTHNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE... 0.000 sec	

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

Tables

sales

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Stored Procedures

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Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar
branch	PK
city	varchar
customer_type	varchar
gender	varchar
product_line	varchar
unit_price	decimal
quantity	int
vat	decimal
total	decimal
date	date
time	time
payment	varchar
cogs	decimal
gross_margin_pct	decimal
gross_income	decimal
rating	decimal

Object Info Session

SQL File 3* ×

Limit to 1200000 row

73 -----Exploratory Data Analysis (EDA)-----

74 -----Generic Questions-----

75 -- 1.How many distinct cities are present in the dataset?

76

77 `SELECT DISTINCT city FROM sales;`

78

Result Grid | Filter Rows: Export: Wrap Cell Content: □

city

Yangon

Naypyitaw

Mandalay

SQL Additions

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

Result Grid

Form Editor

Field Types

sales 7 ×

Action Output

#	Time	Action	Message	Duration / Fetch
15	07:08:53	SELECT date, DAYNAME(date) AS day_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
16	07:08:53	ALTER TABLE sales ADD COLUMN day_name VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
17	07:08:53	UPDATE sales SET day_name = DAYNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE... 0.000 sec	
18	07:10:02	SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
19	07:10:02	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
20	07:10:02	UPDATE sales SET month_name = MONTHNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE... 0.000 sec	
21	07:13:03	SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
22	07:13:03	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	Error Code: 1060. Duplicate column name 'month_name'	0.000 sec
23	07:14:07	SELECT DISTINCT city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.015 sec / 0.000 sec

Read Only Context Help Snippets

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

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SQL File 3*

-- 1.How many distinct cities are present in the dataset?
 SELECT DISTINCT city FROM sales;

-- 2.In which city is each branch situated?
 SELECT DISTINCT branch, city FROM sales;

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

branch	city
A	Yangon
C	Naypyitaw
B	Mandalay

SQL Additions

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

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar
branch	PK varchar
city	varchar
customer_type	varchar
gender	varchar
product_line	varchar
unit_price	decimal
quantity	int
vat	decimal
total	decimal
date	date
time	time
payment	varchar
cogs	decimal
gross_margin_pct	decimal
gross_income	decimal
rating	decimal

Object Info Session

sales 8

Action Output

#	Time	Action	Message	Duration / Fetch
16	07:08:53	ALTER TABLE sales ADD COLUMN day_name VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
17	07:08:53	UPDATE sales SET day_name = DAYNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE...	0.000 sec
18	07:10:02	SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
19	07:10:02	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
20	07:10:02	UPDATE sales SET month_name = MONTHNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE...	0.000 sec
21	07:13:03	SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
22	07:13:03	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	Error Code: 1060. Duplicate column name 'month_name'	0.000 sec
23	07:14:07	SELECT DISTINCT city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.015 sec / 0.000 sec
24	07:14:52	SELECT DISTINCT branch, city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.000 sec / 0.000 sec

Read Only Context Help Snippets

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

walmart

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SQL File 3* ×

Limit to 1200000 row

```

80 •   SELECT DISTINCT branch, city FROM sales;
81
82     --- Product Analysis
83     -- 1.How many distinct product lines are there in the dataset?
84 •   SELECT COUNT(DISTINCT product_line) FROM sales;
85
86
  
```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

COUNT(DISTINCT product_line)
6

Result Grid Form Editor Field Types

SQL Additions

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

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar
branch	varchar
city	varchar
customer_type	varchar
gender	varchar
product_line	varchar
unit_price	decimal
quantity	int
vat	decimal
total	decimal
date	date
time	time
payment	varchar
cogs	decimal
gross_margin_pct	decimal
gross_income	decimal
rating	decimal

Result 10 ×

Action Output

#	Time	Action	Message	Duration / Fetch
18	07:10:02	SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
19	07:10:02	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
20	07:10:02	UPDATE sales SET month_name = MONTHNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE... 0.000 sec	
21	07:13:03	SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
22	07:13:03	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	Error Code: 1060. Duplicate column name 'month_name'	0.000 sec
23	07:14:07	SELECT DISTINCT city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.015 sec / 0.000 sec
24	07:14:52	SELECT DISTINCT branch, city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.000 sec / 0.000 sec
25	07:15:52	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
26	07:16:03	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Schemas

Filter objects

walmart

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Administration Schemas

Information

Table: sales

Columns:

Column Name	Type
invoice_id	varchar
branch	varchar
city	varchar
customer_type	varchar
gender	varchar
product_line	varchar
unit_price	decimal
quantity	int
vat	decimal
total	decimal
date	date
time	time
payment	varchar
cogs	decimal
gross_margin_pct	decimal
gross_income	decimal
rating	decimal

Object Info Session

SQL File 3*

Limit to 1200000 row

```

84 •   SELECT COUNT(DISTINCT product_line) FROM sales;
85
86 -- 2.What is the most common payment method?
87 •   SELECT payment, COUNT(payment) AS common_payment_method
88     FROM sales GROUP BY payment ORDER BY common_payment_method DESC LIMIT 1;
89
90

```

Result Grid

payment	common_payment_method
Ewallet	345

SQL Additions

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

Result 11

Output

Action Output

#	Time	Action	Message	Duration / Fetch
19	07:10:02	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
20	07:10:02	UPDATE sales SET month_name = MONTHNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a WHERE... 0.000 sec	
21	07:13:03	SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
22	07:13:03	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	Error Code: 1060. Duplicate column name 'month_name'	0.000 sec
23	07:14:07	SELECT DISTINCT city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.015 sec / 0.000 sec
24	07:14:52	SELECT DISTINCT branch, city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.000 sec / 0.000 sec
25	07:15:52	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
26	07:16:03	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.000 sec / 0.000 sec
27	07:17:06	SELECT payment, COUNT(payment) AS common_payment_method FROM sales GROUP BY paym...	1 row(s) returned	0.000 sec / 0.000 sec

Read Only Context Help Snippets

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

- walmart
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SQL File 3* ×

```

88 | FROM sales GROUP BY payment ORDER BY common_payment_method DESC LIMIT 1;
89 |
90 | -- 3.What is the most selling product line?
91 | SELECT product_line, count(product_line) AS most_selling_product
92 | FROM sales GROUP BY product_line ORDER BY most_selling_product DESC LIMIT 1;
93 |
94 |

```

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

product_line	most_selling_product
Fashion accessories	178

Administration Schemas

Information

Table: sales

Columns:

Column Name	Type
invoice_id	varchar(40)
branch	PK
city	varchar(15)
customer_type	varchar(40)
gender	varchar(40)
product_line	varchar(15)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,2)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Action Output

#	Time	Action	Message	Duration / Fetch
20	07:10:02	UPDATE sales SET month_name = MONTHNAME(date)	Error Code: 1175. You are using safe update mode and you tried to update a table without a W...	0.000 sec
21	07:13:03	SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
22	07:13:03	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	Error Code: 1060. Duplicate column name 'month_name'	0.000 sec
23	07:14:07	SELECT DISTINCT city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.015 sec / 0.000 sec
24	07:14:52	SELECT DISTINCT branch, city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.000 sec / 0.000 sec
25	07:15:52	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
26	07:16:03	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.000 sec / 0.000 sec
27	07:17:06	SELECT payment, COUNT(payment) AS common_payment_method FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
28	07:18:01	SELECT product_line, count(product_line) AS most_selling_product FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

SQL Additions

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

The screenshot shows the MySQL Workbench interface. The top navigation bar includes File, Edit, View, Query, Database, Server, Tools, Scripting, and Help. The left sidebar displays the Navigator with the 'walmart' schema selected, showing Tables (sales), Views, Stored Procedures, and Functions. The main area contains a SQL editor titled 'SQL File 3*' with the following query:

```
-- 4.What is the total revenue by month?  
SELECT month_name, SUM(total) AS total_revenue  
FROM SALES GROUP BY month_name ORDER BY total_revenue DESC;
```

The results grid shows a single row with the total revenue:

month_name	total_revenue
NULL	322966.7490

On the right, a message states: "Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help." Below the results grid is a toolbar with icons for Result Grid, Form Editor, and Field Types. The bottom section shows the 'Result 13' history panel with a table of log entries.

#	Action	Message	Duration / Fetch
21	07:13:03 SELECT date, MONTHNAME(date) AS month_name FROM sales LIMIT 0, 1200000	1000 row(s) returned	0.000 sec / 0.000 sec
22	07:13:03 ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	Error Code: 1060. Duplicate column name 'month_name'	0.000 sec
23	07:14:07 SELECT DISTINCT city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.015 sec / 0.000 sec
24	07:14:52 SELECT DISTINCT branch, city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.000 sec / 0.000 sec
25	07:15:52 SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
26	07:16:03 SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.000 sec / 0.000 sec
27	07:17:06 SELECT payment, COUNT(payment) AS common_payment_method FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
28	07:18:01 SELECT product_line, count(product_line) AS most_selling_product FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
29	07:18:53 SELECT month_name, SUM(total) AS total_revenue FROM SALES GROUP BY month_name ...	1 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

walmart

Tables

sales

Views

Stored Procedures

Functions

Administration Schemas

Information

Table: sales

Columns:

Column	Type
invoice_id	varchar(40)
branch	PK varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,0)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,0)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

SQL File 3* ×

Limit to 1200000 row

```

96   FROM SALES GROUP BY month_name ORDER BY total_revenue DESC;
97
98   -- 5.Which month recorded the highest Cost of Goods Sold (COGS)?
99   •   SELECT month_name, SUM(cogs) AS total_cogs
100  FROM sales GROUP BY month_name ORDER BY total_cogs DESC;
101
102

```

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

month_name	total_cogs
HULL	307587.38

Result 14 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
22	07:13:03	ALTER TABLE sales ADD COLUMN month_name VARCHAR(10)	Error Code: 1060. Duplicate column name 'month_name'	0.000 sec
23	07:14:07	SELECT DISTINCT city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.015 sec / 0.000 sec
24	07:14:52	SELECT DISTINCT branch, city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.000 sec / 0.000 sec
25	07:15:52	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
26	07:16:03	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.000 sec / 0.000 sec
27	07:17:06	SELECT payment, COUNT(payment) AS common_payment_method FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
28	07:18:01	SELECT product_line, COUNT(product_line) AS most_selling_product FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
29	07:18:53	SELECT month_name, SUM(total) AS total_revenue FROM SALES GROUP BY month_name ...	1 row(s) returned	0.000 sec / 0.000 sec
30	07:19:36	SELECT month_name, SUM(cogs) AS total_cogs FROM sales GROUP BY month_name ORD...	1 row(s) returned	0.000 sec / 0.000 sec

SQL Additions: Jump to

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

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

Tables

sales

Views

Stored Procedures

Functions

SQL File 3* ×

Limit to 1200000 row

```

99 •   SELECT month_name, SUM(cogs) AS total_cogs
100    FROM sales GROUP BY month_name ORDER BY total_cogs DESC;
101
102    -- 6.Which product line generated the highest revenue?
103 •   SELECT product_line, SUM(total) AS total_revenue
104    FROM sales GROUP BY product_line ORDER BY total_revenue DESC LIMIT 1;
105

```

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

product_line	total_revenue
Food and beverages	56144.8440

Result Grid

Form Editor

Field Types

Read Only

Context Help

Snippets

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

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40)
branch	PK varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,0)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,0)
gross_margin_pct	decimal(15,0)
gross_income	decimal(15,0)
rating	decimal(5,3)

Object Info Session

Result 15 ×

Action Output

#	Time	Action	Message	Duration / Fetch
23	07:14:07	SELECT DISTINCT city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.015 sec / 0.000 sec
24	07:14:52	SELECT DISTINCT branch, city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.000 sec / 0.000 sec
25	07:15:52	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
26	07:16:03	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.000 sec / 0.000 sec
27	07:17:06	SELECT payment, COUNT(payment) AS common_payment_method FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
28	07:18:01	SELECT product_line, count(product_line) AS most_selling_product FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
29	07:18:53	SELECT month_name, SUM(total) AS total_revenue FROM sales GROUP BY month_name ...	1 row(s) returned	0.000 sec / 0.000 sec
30	07:19:36	SELECT month_name, SUM(cogs) AS total_cogs FROM sales GROUP BY month_name ORD...	1 row(s) returned	0.000 sec / 0.000 sec
31	07:20:17	SELECT product_line, SUM(total) AS total_revenue FROM sales GROUP BY product_line OR...	1 row(s) returned	0.000 sec / 0.000 sec

MySQL Workbench

Local instance MySQL800 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

Tables

sales

Views

Stored Procedures

Functions

SQL File 3* ×

Limit to 1200000 row

```

104     FROM sales GROUP BY product_line ORDER BY total_revenue DESC LIMIT 1;
105
106
107 -- 7.Which city has the highest revenue?
108 •   SELECT city, SUM(total) AS total_revenue
109     FROM sales GROUP BY city ORDER BY total_revenue DESC LIMIT 1;
110

```

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

city	total_revenue
Naypyitaw	110568.7065

SQLAdditions:

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

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40)
PK	
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,2)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

Result 16 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
24	07:14:52	SELECT DISTINCT branch, city FROM sales LIMIT 0, 1200000	3 row(s) returned	0.000 sec / 0.000 sec
25	07:15:52	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
26	07:16:03	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.000 sec / 0.000 sec
27	07:17:06	SELECT payment, COUNT(payment) AS common_payment_method FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
28	07:18:01	SELECT product_line, count(product_line) AS most_selling_product FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
29	07:18:53	SELECT month_name, SUM(total) AS total_revenue FROM sales GROUP BY month_name ...	1 row(s) returned	0.000 sec / 0.000 sec
30	07:19:36	SELECT month_name, SUM(cogs) AS total_cogs FROM sales GROUP BY month_name ORD...	1 row(s) returned	0.000 sec / 0.000 sec
31	07:20:17	SELECT product_line, SUM(total) AS total_revenue FROM sales GROUP BY product_line OR...	1 row(s) returned	0.000 sec / 0.000 sec
32	07:20:59	SELECT city, SUM(total) AS total_revenue FROM sales GROUP BY city ORDER BY total_reve...	1 row(s) returned	0.015 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

Tables

sales

Views

Stored Procedures

Functions

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40) PK
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,4)
gross_income	decimal(15,4)
rating	decimal(5,3)

Object Info Session

SQL File 3*

```

109 | FROM sales GROUP BY city ORDER BY total_revenue DESC LIMIT 1;
110 |
111 | -- 8.Which product line incurred the highest VAT?
112 | SELECT product_line, SUM(vat) as VAT
113 | FROM sales GROUP BY product_line ORDER BY VAT DESC LIMIT 1;
114 |
115 |

```

Result Grid

product_line	VAT
Food and beverages	2673.5640

Result 17

Action Output

#	Time	Action	Message	Duration / Fetch
25	07:15:52	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
26	07:16:03	SELECT COUNT(DISTINCT product_line) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.000 sec / 0.000 sec
27	07:17:06	SELECT payment, COUNT(payment) AS common_payment_method FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
28	07:18:01	SELECT product_line, count(product_line) AS most_selling_product FROM sales GROUP BY ...	1 row(s) returned	0.000 sec / 0.000 sec
29	07:18:53	SELECT month_name, SUM(total) AS total_revenue FROM SALES GROUP BY month_name ...	1 row(s) returned	0.000 sec / 0.000 sec
30	07:19:36	SELECT month_name, SUM(cogs) AS total_cogs FROM sales GROUP BY month_name ORD...	1 row(s) returned	0.000 sec / 0.000 sec
31	07:20:17	SELECT product_line, SUM(total) AS total_revenue FROM sales GROUP BY product_line OR...	1 row(s) returned	0.000 sec / 0.000 sec
32	07:20:59	SELECT city, SUM(total) AS total_revenue FROM sales GROUP BY city ORDER BY total_reve...	1 row(s) returned	0.015 sec / 0.000 sec
33	07:21:49	SELECT product_line, SUM(vat) as VAT FROM sales GROUP BY product_line ORDER BY V...	1 row(s) returned	0.000 sec / 0.000 sec

SQLAdditions

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

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

- walmart
 - Tables
 - sales
 - Views
 - Stored Procedures
 - Functions

Administration Schemas

Information

Table: sales

Columns:

Column	Type
invoice_id	varchar(40)
branch	PK varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

SQL File 3*

Limit to 1200000 row

```

112 • SELECT product_line, SUM(vat) as VAT
113   FROM sales GROUP BY product_line ORDER BY VAT DESC LIMIT 1;
114
115 -- 9.Which branch sold more products than average product sold?
116 • SELECT branch, SUM(quantity) AS quantity|
117   FROM sales GROUP BY branch HAVING SUM(quantity) > AVG(quantity) ORDER BY quantity DESC LIMIT 1;
118

```

Result Grid

branch	quantity
A	1859

SQL Additions

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

Result 18

Output

Action Output

#	Time	Action	Message	Duration / Fetch
32	07:20:59	SELECT city, SUM(total) AS total_revenue FROM sales GROUP BY city ORDER BY total_reve...	1 row(s) returned	0.015 sec / 0.000 sec
33	07:21:49	SELECT product_line, SUM(vat) as VAT FROM sales GROUP BY product_line ORDER BY V...	1 row(s) returned	0.000 sec / 0.000 sec
34	07:23:08	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
35	07:23:08	UPDATE sales SET product_category= (CASE WHEN total >= (SELECT AVG(total) FROM s...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to...	0.000 sec
36	07:23:16	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
37	07:23:59	CREATE DATABASE walmart	Error Code: 1007. Can't create database 'walmart'; database exists	0.000 sec
38	07:24:11	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
39	07:26:00	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
40	07:27:38	SELECT branch, SUM(quantity) AS quantity FROM sales GROUP BY branch HAVING SUM(qu...	1 row(s) returned	0.016 sec / 0.000 sec

Read Only Context Help Snippets

MySQL Workbench

Local instance MySQL800 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

walmart

- Tables
 - sales
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Table: sales

Columns:

Column Name	Type
invoice_id	varchar(40) PK
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,2)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

SQL File 3* ×

Limit to 1200000 row

```

116 •   SELECT branch, SUM(quantity) AS quantity
117   FROM sales GROUP BY branch HAVING SUM(quantity) > AVG(quantity) ORDER BY quantity DESC LIMIT 1;
118
119 -- 10.What is the most common product line by gender?
120 •   SELECT gender, product_line, COUNT(gender) total_count
121   FROM sales GROUP BY gender, product_line ORDER BY total_count DESC;
122

```

Result Grid | Filter Rows: Export: Wrap Cell Content: □

gender	product_line	total_count
Female	Fashion accessories	96
Female	Food and beverages	90
Male	Health and beauty	88
Female	Sports and travel	88
Male	Electronic accessories	86
Male	Food and beverages	84
Female	Electronic accessories	84
Male	Fashion accessories	82
Male	Home and lifestyle	81
Female	Home and lifestyle	79
Male	Sports and travel	79

Result 19 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
33	07:21:49	SELECT product_line, SUM(vat) as VAT FROM sales GROUP BY product_line ORDER BY V...	1 row(s) returned	0.000 sec / 0.000 sec
34	07:23:08	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
35	07:23:08	UPDATE sales SET product_category= (CASE WHEN total >= (SELECT AVG(total) FROM s...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to...	0.000 sec
36	07:23:16	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
37	07:23:59	CREATE DATABASE walmart	Error Code: 1007. Can't create database 'walmart'; database exists	0.000 sec
38	07:24:11	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
39	07:26:00	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
40	07:27:38	SELECT branch, SUM(quantity) AS quantity FROM sales GROUP BY branch HAVING SUM(qu...	1 row(s) returned	0.016 sec / 0.000 sec
41	07:28:16	SELECT gender, product_line, COUNT(gender) total_count FROM sales GROUP BY gender, p...	12 row(s) returned	0.015 sec / 0.000 sec

SQLAdditions

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

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

- Tables
 - sales
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Table: sales

Columns:

Column Name	Type
invoice_id	varchar(40) PK
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

SQL File 3*

```

120 •   SELECT gender, product_line, COUNT(gender) total_count
121     FROM sales GROUP BY gender, product_line ORDER BY total_count DESC;
122
123 -- 11.What is the average rating of each product line?
124 •   SELECT product_line, ROUND(AVG(rating),2) average_rating
125     FROM sales GROUP BY product_line ORDER BY average_rating DESC;
126

```

Result Grid

product_line	average_rating
Food and beverages	7.11
Fashion accessories	7.03
Health and beauty	7.00
Sports and travel	6.92
Electronic accessories	6.92
Home and lifestyle	6.84

Result 20

Action Output

#	Time	Action	Message	Duration / Fetch
34	07:23:08	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
35	07:23:08	UPDATE sales SET product_category= (CASE WHEN total >= (SELECT AVG(total) FROM s...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to...	0.000 sec
36	07:23:16	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
37	07:23:59	CREATE DATABASE walmart	Error Code: 1007. Can't create database 'walmart'; database exists	0.000 sec
38	07:24:11	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
39	07:26:00	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
40	07:27:38	SELECT branch, SUM(quantity) AS quantity FROM sales GROUP BY branch HAVING SUM(qu...	1 row(s) returned	0.016 sec / 0.000 sec
41	07:28:16	SELECT gender, product_line, COUNT(gender) total_count FROM sales GROUP BY gender, p...	12 row(s) returned	0.015 sec / 0.000 sec
42	07:28:51	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY produc...	6 row(s) returned	0.015 sec / 0.000 sec

SQLAdditions

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

MySQL Workbench

Local instance MySQL800 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

walmart

- Tables
 - sales
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40) PK
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

SQL File 3* ×

126
127 -- 12.What is the average rating of each product line?
128 • SELECT product_line, ROUND(AVG(rating),2) average_rating
129 FROM sales GROUP BY product_line ORDER BY average_rating DESC;
130
131
132

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

product_line	average_rating
Food and beverages	7.11
Fashion accessories	7.03
Health and beauty	7.00
Sports and travel	6.92
Electronic accessories	6.92
Home and lifestyle	6.84

Result 21 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
35	07:23:08	UPDATE sales SET product_category= (CASE WHEN total >= (SELECT AVG(total) FROM s...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to...	0.000 sec
36	07:23:16	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
37	07:23:59	CREATE DATABASE walmart	Error Code: 1007. Can't create database 'walmart'; database exists	0.000 sec
38	07:24:11	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
39	07:26:00	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
40	07:27:38	SELECT branch, SUM(quantity) AS quantity FROM sales GROUP BY branch HAVING SUM(qu...	1 row(s) returned	0.016 sec / 0.000 sec
41	07:28:16	SELECT gender, product_line, COUNT(gender) total_count FROM sales GROUP BY gender, p...	12 row(s) returned	0.015 sec / 0.000 sec
42	07:28:51	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY produc...	6 row(s) returned	0.015 sec / 0.000 sec
43	08:43:36	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY produc...	6 row(s) returned	0.016 sec / 0.000 sec

SQL Additions

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

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

walmart

Tables

sales

Views

Stored Procedures

Functions

Administration Schemas

Information

Table: sales

Columns:

<u>invoice_id</u>	varchar(40)
branch	PK
city	varchar(15)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

SQL File 3* ×

Sales Analysis

```
-- 1. Identify the customer type that generates the highest revenue.
SELECT customer_type, SUM(total) AS total_sales
FROM sales GROUP BY customer_type ORDER BY total_sales DESC LIMIT 1;
```

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

customer_type	total_sales
Member	164223.4440

SQL Additions: SQL Help Jump to

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

Result 25 ×

Action Output

#	Time	Action	Message	Duration / Fetch
39	07:26:00	ALTER TABLE sales ADD COLUMN product_category VARCHAR(20)	Error Code: 1060. Duplicate column name 'product_category'	0.000 sec
40	07:27:38	SELECT branch, SUM(quantity) AS quantity FROM sales GROUP BY branch HAVING SUM(qu... 1 row(s) returned		0.016 sec / 0.000 sec
41	07:28:16	SELECT gender, product_line, COUNT(gender) total_count FROM sales GROUP BY gender, p... 12 row(s) returned		0.015 sec / 0.000 sec
42	07:28:51	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY produc... 6 row(s) returned		0.015 sec / 0.000 sec
43	08:43:36	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY produc... 6 row(s) returned		0.016 sec / 0.000 sec
44	08:44:49	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY ... 0 row(s) returned		0.000 sec / 0.000 sec
45	08:45:52	SELECT day_name, time_of_day, COUNT(*) AS total_sales FROM sales WHERE day_name N... 0 row(s) returned		0.000 sec / 0.000 sec
46	08:45:52	SELECT day_name, time_of_day, COUNT(*) AS total_sales FROM sales WHERE day_name N... 0 row(s) returned		0.000 sec / 0.000 sec
47	08:46:46	SELECT customer_type, SUM(total) AS total_sales FROM sales GROUP BY customer_type O... 1 row(s) returned		0.000 sec / 0.000 sec

Result Only Context Help Snippets

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

walmart

- Tables
 - sales
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Table: sales

Columns:

Column Name	Type
invoice_id	varchar(40) PK
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

SQL File 3* ×

136
137 -- 2.Which city has the largest tax percent/ VAT (Value Added Tax)?
138 • SELECT city, SUM(VAT) AS total_VAT
139 FROM sales GROUP BY city ORDER BY total_VAT DESC LIMIT 1;
140
141
142

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

city	total_VAT
Naypyitaw	5265.1765

Result 26 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
40	07:27:38	SELECT branch, SUM(quantity) AS quantity FROM sales GROUP BY branch HAVING SUM(qu... 1 row(s) returned		0.016 sec / 0.000 sec
41	07:28:16	SELECT gender, product_line, COUNT(gender) total_count FROM sales GROUP BY gender, p... 12 row(s) returned		0.015 sec / 0.000 sec
42	07:28:51	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY produc... 6 row(s) returned		0.015 sec / 0.000 sec
43	08:43:36	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY produc... 6 row(s) returned		0.016 sec / 0.000 sec
44	08:44:49	SELECT day_name, time_of_day, COUNT(invvoice_id) AS total_sales FROM sales GROUP BY ... 0 row(s) returned		0.000 sec / 0.000 sec
45	08:45:52	SELECT day_name, time_of_day, COUNT(invvoice_id) AS total_sales FROM sales GROUP BY ... 0 row(s) returned		0.000 sec / 0.000 sec
46	08:45:52	SELECT day_name, time_of_day, COUNT(*) AS total_sales FROM sales WHERE day_name N... 0 row(s) returned		0.000 sec / 0.000 sec
47	08:46:46	SELECT customer_type, SUM(total) AS total_sales FROM sales GROUP BY customer_type O... 1 row(s) returned		0.000 sec / 0.000 sec
48	08:47:47	SELECT city, SUM(VAT) AS total_VAT FROM sales GROUP BY city ORDER BY total_VAT D... 1 row(s) returned		0.016 sec / 0.000 sec

SQLAdditions

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

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

Tables

sales

Views

Stored Procedures

Functions

SQL File 3* ×

Limit to 1200000 row

```

139   FROM sales GROUP BY city ORDER BY total_VAT DESC LIMIT 1;
140
141 -- 3.Which customer type pays the most in VAT?
142 •   SELECT customer_type, SUM(VAT) AS total_VAT
143   FROM sales GROUP BY customer_type ORDER BY total_VAT DESC LIMIT 1;
144
145

```

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

customer_type	total_VAT
Member	7820.1640

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.

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40)
PK	
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Action Output

#	Time	Action	Message	Duration / Fetch
41	07:28:16	SELECT gender, product_line, COUNT(gender) total_count FROM sales GROUP BY gender, p...	12 row(s) returned	0.015 sec / 0.000 sec
42	07:28:51	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY produc...	6 row(s) returned	0.015 sec / 0.000 sec
43	08:43:36	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY produc...	6 row(s) returned	0.016 sec / 0.000 sec
44	08:44:49	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec
45	08:45:52	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec
46	08:45:52	SELECT day_name, time_of_day, COUNT(*) AS total_sales FROM sales WHERE day_name N...	0 row(s) returned	0.000 sec / 0.000 sec
47	08:46:46	SELECT customer_type, SUM(total) AS total_sales FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec
48	08:47:47	SELECT city, SUM(VAT) AS total_VAT FROM sales GROUP BY city ORDER BY total_VAT D...	1 row(s) returned	0.016 sec / 0.000 sec
49	08:48:50	SELECT customer_type, SUM(VAT) AS total_VAT FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

Tables

sales

Views

Stored Procedures

Functions

SQL File 3* ×

Limit to 1200000 row

144
145 --Customer Analysis
146
147 -- 1.How many unique customer types does the data have?
148 SELECT COUNT(DISTINCT customer_type) FROM sales;
149
150

Result Grid | Filter Rows: _____ | Export: _____ | Wrap Cell Content:

COUNT(DISTINCT customer_type)
2

Result Grid

Form Editor

Field Types

SQL Additions

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

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40)
branch	PK
city	varchar(15)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,2)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

Result 28 ×

Action Output

#	Time	Action	Message	Duration / Fetch
42	07:28:51	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY product...	6 row(s) returned	0.015 sec / 0.000 sec
43	08:43:36	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY product...	6 row(s) returned	0.016 sec / 0.000 sec
44	08:44:49	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec
45	08:45:52	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec
46	08:45:52	SELECT day_name, time_of_day, COUNT() AS total_sales FROM sales WHERE day_name N...	0 row(s) returned	0.000 sec / 0.000 sec
47	08:46:46	SELECT customer_type, SUM(total) AS total_sales FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec
48	08:47:47	SELECT city, SUM(VAT) AS total_VAT FROM sales GROUP BY city ORDER BY total_VAT D...	1 row(s) returned	0.016 sec / 0.000 sec
49	08:48:50	SELECT customer_type, SUM(VAT) AS total_VAT FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
50	08:50:00	SELECT COUNT(DISTINCT customer_type) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec

Read Only Context Help Snippets

MySQL Workbench

Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Schemas: Local instance MySQL80

Navigator: Schemas, Tables, Views, Stored Procedures, Functions

SQL File 3:

```

148 SELECT COUNT(DISTINCT customer_type) FROM sales;
149
150 -- 2.How many unique payment methods does the data have?
151 • SELECT COUNT(DISTINCT payment) FROM sales;
152
153
154

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | SQL Additions: | Jump to: | Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.

Administration Schemas Information

Table: sales

Columns:

Column	Type
invoice_id	varchar(40) PK
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,2)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Action Output

#	Time	Action	Message	Duration / Fetch
43	08:43:36	SELECT product_line, ROUND(AVG(rating),2) average_rating FROM sales GROUP BY product_line	6 row(s) returned	0.016 sec / 0.000 sec
44	08:44:49	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY day_name, time_of_day	0 row(s) returned	0.000 sec / 0.000 sec
45	08:45:52	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY day_name, time_of_day	0 row(s) returned	0.000 sec / 0.000 sec
46	08:45:52	SELECT day_name, time_of_day, COUNT(*) AS total_sales FROM sales WHERE day_name NOT IN ('Sunday', 'Saturday')	0 row(s) returned	0.000 sec / 0.000 sec
47	08:46:46	SELECT customer_type, SUM(total) AS total_sales FROM sales GROUP BY customer_type ORDER BY total DESC	1 row(s) returned	0.000 sec / 0.000 sec
48	08:47:47	SELECT city, SUM(VAT) AS total_VAT FROM sales GROUP BY city ORDER BY total_VAT DESC	1 row(s) returned	0.016 sec / 0.000 sec
49	08:48:50	SELECT customer_type, SUM(VAT) AS total_VAT FROM sales GROUP BY customer_type ORDER BY total_VAT DESC	1 row(s) returned	0.000 sec / 0.000 sec
50	08:50:00	SELECT COUNT(DISTINCT customer_type) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
51	08:50:44	SELECT COUNT(DISTINCT payment) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.015 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

walmart

- Tables
 - sales
- Views
- Stored Procedures
- Functions

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40) PK
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,4)
gross_income	decimal(15,4)
rating	decimal(5,3)

Object Info Session

SQL File 3* ×

-- 3.Which is the most common customer type?

```
152
153
154 •   SELECT customer_type, COUNT(customer_type) AS common_customer
155   FROM sales GROUP BY customer_type ORDER BY common_customer DESC LIMIT 1;
156
157
158
```

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

customer_type	common_customer
Member	501

SQL Additions

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

Result 30 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
44	08:44:49	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec
45	08:45:52	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec
46	08:45:52	SELECT day_name, time_of_day, COUNT(*) AS total_sales FROM sales GROUP BY day_name N...	0 row(s) returned	0.000 sec / 0.000 sec
47	08:46:46	SELECT customer_type, SUM(total) AS total_sales FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec
48	08:47:47	SELECT city, SUM(VAT) AS total_VAT FROM sales GROUP BY city ORDER BY total_VAT D...	1 row(s) returned	0.016 sec / 0.000 sec
49	08:48:50	SELECT customer_type, SUM(VAT) AS total_VAT FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
50	08:50:00	SELECT COUNT(DISTINCT customer_type) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
51	08:50:44	SELECT COUNT(DISTINCT payment) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.015 sec / 0.000 sec
52	08:51:44	SELECT customer_type, COUNT(customer_type) AS common_customer FROM sales GROUP ...	1 row(s) returned	0.000 sec / 0.000 sec

Read Only Context Help Snippets

Local instance MySQL80 ×

Edit View Query Database Server Tools Scripting Help

Navigator HEMAS

Filter objects

walmart

- Tables
 - sales
- Views
- Stored Procedures
- Functions

Administration Schemas

formation

Table: sales

Columns:

	invoice_id	varchar(40)
PK	branch	varchar(15)
	city	varchar(40)
	customer_type	varchar(40)
	gender	varchar(15)
	product_line	varchar(150)
	unit_price	decimal(10, 2)
	quantity	int
	vat	decimal(6, 4)
	total	decimal(12, 2)
	date	datetime
	time	time
	payment	varchar(25)
	cogs	decimal(10, 2)
	gross_margin_pct	decimal(15, 4)
	gross_income	decimal(15, 4)
	rating	decimal(5, 3)

Object Info Session

SQL File 3 ×

156 -- 4.Which customer type buys the most?

157 • SELECT customer_type, SUM(total) as total_sales

158 FROM sales GROUP BY customer_type ORDER BY total_sales LIMIT 1;

159

160

161

162

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

customer_type	total_sales
Normal	158743.3050

Result Grid Form Editor Field Types

SQL Additions

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

Result 31 ×

Action Output

#	Time	Action	Message	Duration / Fetch
45	08:45:52	SELECT day_name, time_of_day, COUNT(invoice_id) AS total_sales FROM sales GROUP BY ...	0 row(s) returned	0.000 sec / 0.000 sec
46	08:45:52	SELECT day_name, time_of_day, COUNT(*) AS total_sales FROM sales WHERE day_name N...	0 row(s) returned	0.000 sec / 0.000 sec
47	08:46:46	SELECT customer_type, SUM(total) AS total_sales FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec
48	08:47:47	SELECT city, SUM(VAT) AS total_VAT FROM sales GROUP BY city ORDER BY total_VAT D...	1 row(s) returned	0.016 sec / 0.000 sec
49	08:48:50	SELECT customer_type, SUM(VAT) AS total_VAT FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
50	08:50:00	SELECT COUNT(DISTINCT customer_type) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
51	08:50:44	SELECT COUNT(DISTINCT payment) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.015 sec / 0.000 sec
52	08:51:44	SELECT customer_type, COUNT(customer_type) AS common_customer FROM sales GROUP ...	1 row(s) returned	0.000 sec / 0.000 sec
53	08:52:42	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec

Output

Read Only Context Help Snippets

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

- Tables
- sales
- Views
- Stored Procedures
- Functions

SQL File 3* ×

```

158 •    SELECT customer_type, SUM(total) as total_sales
159     FROM sales GROUP BY customer_type ORDER BY total_sales LIMIT 1;
160
161 •    SELECT customer_type, COUNT(*) AS most_buyer
162     FROM sales GROUP BY customer_type ORDER BY most_buyer DESC LIMIT 1;
163
164

```

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

customer_type	most_buyer
Member	501

SQLAdditions

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

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40)
PK	
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,4)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,4)
gross_margin_pct	decimal(15,4)
gross_income	decimal(15,4)
rating	decimal(5,3)

Action Output

#	Time	Action	Message	Duration / Fetch
47	08:46:46	SELECT customer_type, SUM(total) AS total_sales FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec
48	08:47:47	SELECT city, SUM(VAT) AS total_VAT FROM sales GROUP BY city ORDER BY total_VAT D...	1 row(s) returned	0.016 sec / 0.000 sec
49	08:49:50	SELECT customer_type, SUM(VAT) AS total_VAT FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
50	08:50:00	SELECT COUNT(DISTINCT customer_type) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
51	08:50:44	SELECT COUNT(DISTINCT payment) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.015 sec / 0.000 sec
52	08:51:44	SELECT customer_type, COUNT(customer_type) AS common_customer FROM sales GROUP ...	1 row(s) returned	0.000 sec / 0.000 sec
53	08:52:42	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
54	08:53:50	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.016 sec / 0.000 sec
55	08:53:50	SELECT customer_type, COUNT(*) AS most_buyer FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

walmart

- Tables
 - sales
- Views
- Stored Procedures
- Functions

SQL File 3* ×

```

163
164 -- 5.What is the gender of most of the customers?
165 • SELECT gender, COUNT(*) AS all_genders
166 FROM sales GROUP BY gender ORDER BY all_genders DESC LIMIT 1;
167
168
169
  
```

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

gender	all_genders
Female	501

SQL Additions

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

Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40) PK
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,2)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Result 34 ×

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
48	08:47:47	SELECT city, SUM(VAT) AS total_VAT FROM sales GROUP BY city ORDER BY total_VAT D...	1 row(s) returned	0.016 sec / 0.000 sec
49	08:48:50	SELECT customer_type, SUM(VAT) AS total_VAT FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
50	08:50:00	SELECT COUNT(DISTINCT customer_type) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
51	08:50:44	SELECT COUNT(DISTINCT payment) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.015 sec / 0.000 sec
52	08:51:44	SELECT customer_type, COUNT(customer_type) AS common_customer FROM sales GROUP ...	1 row(s) returned	0.000 sec / 0.000 sec
53	08:52:42	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
54	08:53:50	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.016 sec / 0.000 sec
55	08:53:50	SELECT customer_type, COUNT(*) AS most_buyer FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec
56	08:54:43	SELECT gender, COUNT(*) AS all_genders FROM sales GROUP BY gender ORDER BY all_g...	1 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

SCHEMAS

Filter objects

walmart

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Administration Schemas

Information

Table: sales

Columns:

	invoice_id	branch	city	customer_type	gender	product_line	unit_price	quantity	vat	total	date	time	payment	cogs	gross_margin_pct	gross_income	rating
PK	varchar(40)	varchar(15)	varchar(40)	varchar(40)	varchar(15)	varchar(150)	decimal(10,0)	int	decimal(6,4)	decimal(12,0)	datetime	time	varchar(25)	decimal(10,0)	decimal(15,1)	decimal(15,3)	decimal(5,3)

Object Info Session

SQL File 3* ×

Limit to 1200000 row

```

167
168 -- 6.What is the gender distribution per branch?
169 • SELECT branch, gender, COUNT(gender) AS gender_distribution
170   FROM sales GROUP BY branch, gender ORDER BY branch;
171
172
173

```

Result Grid

branch	gender	gender_distribution
A	Female	161
A	Male	179
B	Female	162
B	Male	170
C	Female	178
C	Male	150

SQL Additions

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

Result 35 ×

Action Output

#	Time	Action	Message	Duration / Fetch
49	08:48:50	SELECT customer_type, SUM(VAT) AS total_VAT FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
50	08:50:00	SELECT COUNT(DISTINCT customer_type) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
51	08:50:44	SELECT COUNT(DISTINCT payment) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.015 sec / 0.000 sec
52	08:51:44	SELECT customer_type, COUNT(customer_type) AS common_customer FROM sales GROUP ...	1 row(s) returned	0.000 sec / 0.000 sec
53	08:52:42	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
54	08:53:50	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.016 sec / 0.000 sec
55	08:53:50	SELECT customer_type, COUNT(*) AS most_buyer FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec
56	08:54:43	SELECT gender, COUNT(*) AS all_genders FROM sales GROUP BY gender ORDER BY all_g...	1 row(s) returned	0.000 sec / 0.000 sec
57	08:55:57	SELECT branch, gender, COUNT(gender) AS gender_distribution FROM sales GROUP BY bra...	6 row(s) returned	0.016 sec / 0.000 sec

Result Only Context Help Snippets

Local instance MySQL800

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Navigator

HEMAS

Filter objects

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SQL File 3*

```

170   FROM sales GROUP BY branch, gender ORDER BY branch;
171
172 -- 7.Which time of the day do customers give most ratings?
173 •   SELECT time_of_day, AVG(rating) AS average_rating
174   FROM sales GROUP BY time_of_day ORDER BY average_rating DESC LIMIT 1;
175
176

```

Result Grid

time_of_day	average_rating
NULL	6.972700

SQL Additions

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

Table: sales

Columns:

invoice_id	varchar(40)
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,2)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Result 36

Action Output

#	Time	Action	Message	Duration / Fetch
50	08:50:00	SELECT COUNT(DISTINCT customer_type) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.016 sec / 0.000 sec
51	08:50:44	SELECT COUNT(DISTINCT payment) FROM sales LIMIT 0, 1200000	1 row(s) returned	0.015 sec / 0.000 sec
52	08:51:44	SELECT customer_type, COUNT(customer_type) AS common_customer FROM sales GROUP ...	1 row(s) returned	0.000 sec / 0.000 sec
53	08:52:42	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
54	08:53:50	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.016 sec / 0.000 sec
55	08:53:50	SELECT customer_type, COUNT(*) AS most_buyer FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec
56	08:54:43	SELECT gender, COUNT(*) AS all_genders FROM sales GROUP BY gender ORDER BY all_g...	1 row(s) returned	0.000 sec / 0.000 sec
57	08:55:57	SELECT branch, gender, COUNT(gender) AS gender_distribution FROM sales GROUP BY bra...	6 row(s) returned	0.016 sec / 0.000 sec
58	08:57:30	SELECT time_of_day, AVG(rating) AS average_rating FROM sales GROUP BY time_of_day O...	1 row(s) returned	0.015 sec / 0.000 sec

MySQL Workbench

Local instance MySQL80 ×

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Navigator

SCHEMAS

walmart

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Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40) PK
branch	varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,2)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin	decimal(15,2)
gross_margin_pct	decimal(5,3)
rating	decimal(5,3)

Object Info Session

SQL File 3* ×

```

176 -- 8.Which time of the day do customers give most ratings per branch?
177 • SELECT branch, time_of_day, AVG(rating) AS average_rating
178   FROM sales GROUP BY branch, time_of_day ORDER BY average_rating DESC;
179
180 • SELECT branch, time_of_day,
181   AVG(rating) OVER(PARTITION BY branch) AS ratings
182   FROM sales GROUP BY branch;

```

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid Form Editor Field Types

branch	time_of_day	average_rating
C	NULL	7.0728659
A	NULL	7.0270588
B	NULL	6.8180723

Result 37 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
52	08:51:44	SELECT customer_type, COUNT(customer_type) AS common_customer FROM sales GROUP ...	1 row(s) returned	0.000 sec / 0.000 sec
53	08:52:42	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR... 1 row(s) returned		0.000 sec / 0.000 sec
54	08:53:50	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR... 1 row(s) returned		0.016 sec / 0.000 sec
55	08:53:50	SELECT customer_type, COUNT(*) AS most_buyer FROM sales GROUP BY customer_type O... 1 row(s) returned		0.000 sec / 0.000 sec
56	08:54:43	SELECT gender, COUNT(*) AS all_gender FROM sales GROUP BY gender ORDER BY all_g... 1 row(s) returned		0.000 sec / 0.000 sec
57	08:55:57	SELECT branch, gender, COUNT(gender) AS gender_distribution FROM sales GROUP BY bra... 6 row(s) returned		0.016 sec / 0.000 sec
58	08:57:30	SELECT time_of_day, AVG(rating) AS average_rating FROM sales GROUP BY time_of_day O... 1 row(s) returned		0.015 sec / 0.000 sec
59	08:58:49	SELECT branch, time_of_day, AVG(rating) AS average_rating FROM sales GROUP BY branch... 3 row(s) returned		0.000 sec / 0.000 sec
60	08:58:49	SELECT branch, time_of_day, AVG(rating) OVER(PARTITION BY branch) AS ratings FROM sa... Error Code: 1055. Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregat...		0.000 sec

SQL Additions

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

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

walmart

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Administration Schemas

Information

Table: sales

Columns:

Column Name	Type
invoice_id	varchar(40)
branch	PK
city	varchar(15)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,0)
quantity	int
vat	decimal(6,4)
total	decimal(12,4)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

SQL File 3* ×

Limit to 1200000 row

```

183
184  -- 9.Which day of the week has the best avg ratings?
185 •   SELECT day_name, AVG(rating) AS average_rating
186   FROM sales GROUP BY day_name ORDER BY average_rating DESC LIMIT 1;
187
188
189

```

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

day_name	average_rating
HULL	6.9727000

Result Grid Form Editor Field Types

SQL Additions

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

Result 38 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
53	08:52:42	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.000 sec / 0.000 sec
54	08:53:50	SELECT customer_type, SUM(total) as total_sales FROM sales GROUP BY customer_type OR...	1 row(s) returned	0.016 sec / 0.000 sec
55	08:53:50	SELECT customer_type, COUNT(*) AS most_buyer FROM sales GROUP BY customer_type O...	1 row(s) returned	0.000 sec / 0.000 sec
56	08:54:43	SELECT gender, COUNT(*) AS all_genders FROM sales GROUP BY gender ORDER BY all_g...	1 row(s) returned	0.000 sec / 0.000 sec
57	08:55:57	SELECT branch, gender, COUNT(gender) AS gender_distribution FROM sales GROUP BY bra...	6 row(s) returned	0.016 sec / 0.000 sec
58	08:57:30	SELECT time_of_day, AVG(rating) AS average_rating FROM sales GROUP BY time_of_day O...	1 row(s) returned	0.015 sec / 0.000 sec
59	08:58:49	SELECT branch, time_of_day, AVG(rating) AS average_rating FROM sales GROUP BY branch...	3 row(s) returned	0.000 sec / 0.000 sec
60	08:58:49	SELECT branch, time_of_day, AVG(rating) OVER(PARTITION BY branch) AS ratings FROM sa...	Error Code: 1055. Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggregated column 'sales.ratings' which is not functionally dependent...	0.000 sec
61	09:00:24	SELECT day_name, AVG(rating) AS average_rating FROM sales GROUP BY day_name ORD...	1 row(s) returned	0.000 sec / 0.000 sec

Result Only Context Help Snippets

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator

Schemas

Filter objects

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Administration Schemas

Information

Table: sales

Columns:

invoice_id	varchar(40)
branch	PK varchar(15)
city	varchar(40)
customer_type	varchar(40)
gender	varchar(15)
product_line	varchar(150)
unit_price	decimal(10,2)
quantity	int
vat	decimal(6,4)
total	decimal(12,2)
date	datetime
time	time
payment	varchar(25)
cogs	decimal(10,2)
gross_margin_pct	decimal(15,2)
gross_income	decimal(15,2)
rating	decimal(5,3)

Object Info Session

SQL File 3* ×

132 -- 10.Which day of the week has the best average ratings per branch?

133 SELECT branch, day_name, AVG(rating) AS average_rating

134 FROM sales GROUP BY day_name, branch ORDER BY average_rating DESC;

135

136

137 • SELECT branch, day_name,

138 AVG(rating) OVER(PARTITION BY branch) AS rating

139 FROM sales GROUP BY branch ORDER BY rating DESC;

140

Result Grid | Filter Rows: Export: Wrap Cell Content: □

branch	day_name	average_rating
C	NULL	7.0728659
A	NULL	7.0270588
B	NULL	6.8180723

Result 40 ×

Output

Action Output

#	Time	Action	Message	Duration / Fetch
57	08:55:57	SELECT branch, gender, COUNT(gender) AS gender_distribution FROM sales GROUP BY bra...	6 row(s) returned	0.016 sec / 0.000 sec
58	08:57:30	SELECT time_of_day, AVG(rating) AS average_rating FROM sales GROUP BY time_of_day O...	1 row(s) returned	0.015 sec / 0.000 sec
59	08:58:49	SELECT branch, time_of_day, AVG(rating) AS average_rating FROM sales GROUP BY branch...	3 row(s) returned	0.000 sec / 0.000 sec
60	08:58:49	SELECT branch, time_of_day, AVG(rating) OVER(PARTITION BY branch) AS ratings FROM sa...	Error Code: 1055. Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggrega...	0.000 sec
61	09:00:24	SELECT day_name, AVG(rating) AS average_rating FROM sales GROUP BY day_name ORD...	1 row(s) returned	0.000 sec / 0.000 sec
62	09:01:29	SELECT branch, day_name, AVG(rating) AS average_rating FROM sales GROUP BY day_na...	3 row(s) returned	0.000 sec / 0.000 sec
63	09:01:29	SELECT branch, day_name, AVG(rating) OVER(PARTITION BY branch) AS rating FROM sale...	Error Code: 1055. Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggrega...	0.000 sec
64	09:03:04	SELECT branch, day_name, AVG(rating) AS average_rating FROM sales GROUP BY day_na...	3 row(s) returned	0.000 sec / 0.000 sec
65	09:03:04	SELECT branch, day_name, AVG(rating) OVER(PARTITION BY branch) AS rating FROM sale...	Error Code: 1055. Expression #2 of SELECT list is not in GROUP BY clause and contains nonaggrega...	0.000 sec

SQL Additions

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