

RetailMart Ltd.

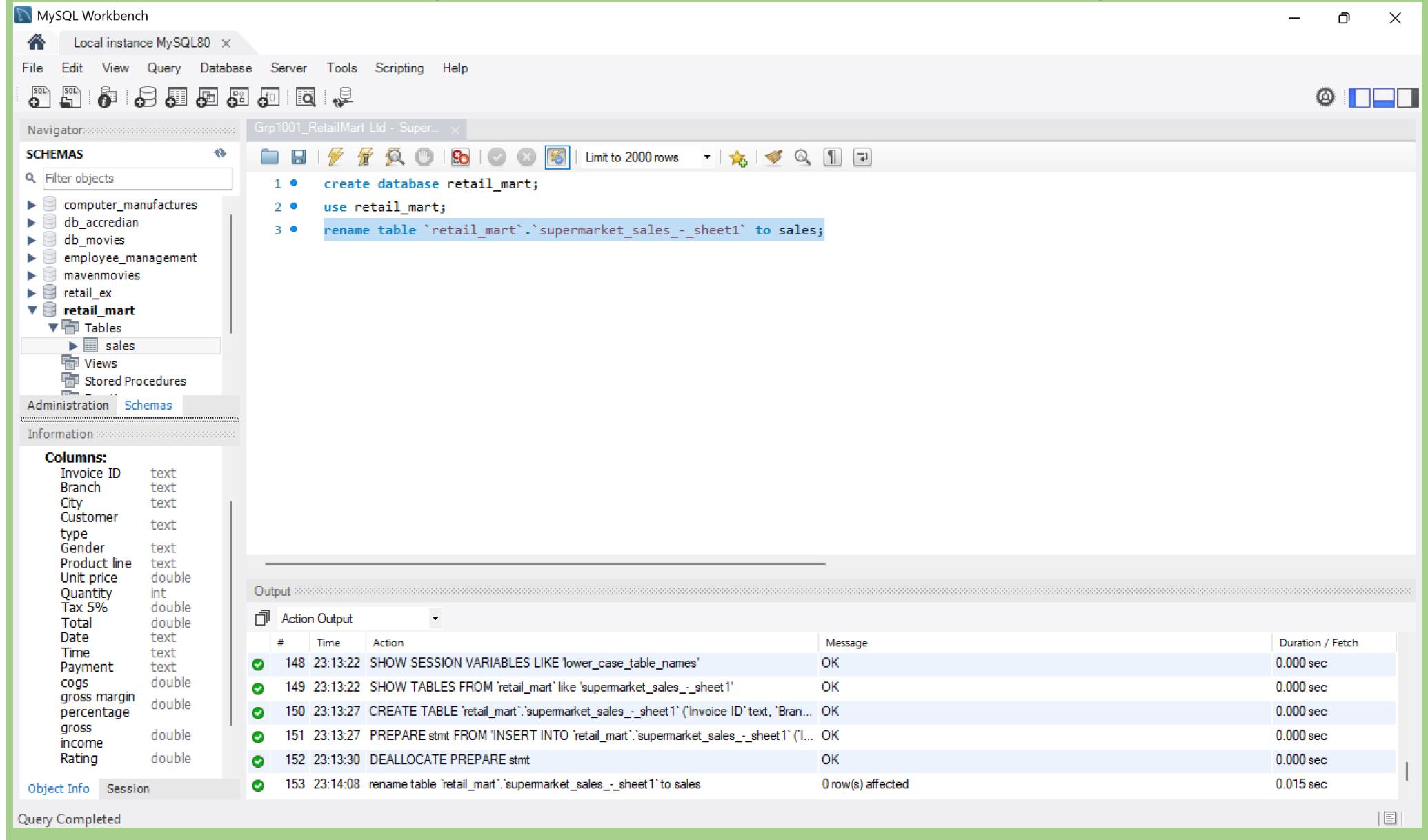
- Super Store Sales Review

SQL Query- Screenshots

Group 1001

- Khilesh Katta*
- Aditya*
- Shermina KP*

Screenshot 1: Creating the database in SQL with name retail_mart and renaming table to 'sales'



Screenshot 2: Selecting all rows from the table 'sales'

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator: Grp1001_RetailMart Ltd - Super... ×

SCHEMAS

Filter objects

- computer_manufactures
- db_acredian
- db_movies
- employee_management
- mavenmovies
- retail_ex
- retail_mart**

Tables

- sales**
- Views
- Stored Procedures
- functions

Administration Schemas

Information:

Columns:

Invoice ID	text
Branch	text
City	text
Customer type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax 5%	double
Total	double
Date	text
Time	text
Payment	text
cogs	double
gross margin percentage	double
gross income	double
Rating	double

Object Info Session

Result Grid | Filter Rows: Export: Wrap Cell Content: Result Grid | Form Editor | Read Only

1 • create database retail_mart;
2 • use retail_mart;
3 • rename table `retail_mart`.`supermarket_sales_-_sheet1` to sales;
4 • select * from sales;

Invoice ID	Branch	City	Customer type	Gender	Product line	Unit price	Quantity	Tax 5%	Total	Date	Time	Payment	cogs	gross margin percentage
750-67-8428	A	Yangon	Member	Female	Health and beauty	74.69	7	26.1415	548.9715	05-01-2019	13:08	Ewallet	522.83	4.76
226-31-3081	C	Naypyitaw	Normal	Female	Electronic accessories	15.28	5	3.82	80.22	08-03-2019	10:29	Cash	76.4	4.76
631-41-3108	A	Yangon	Normal	Male	Home and lifestyle	46.33	7	16.2155	340.5255	03-03-2019	13:23	Credit card	324.31	4.76
123-19-1176	A	Yangon	Member	Male	Health and beauty	58.22	8	23.288	489.048	27-01-2019	20:33	Ewallet	465.76	4.76
373-73-7910	A	Yangon	Normal	Male	Sports and travel	86.31	7	30.2085	634.3785	08-02-2019	10:37	Ewallet	604.17	4.76
699-14-3026	C	Naypyitaw	Normal	Male	Electronic accessories	85.39	7	29.8865	627.6165	25-03-2019	18:30	Ewallet	597.73	4.76
355-53-5943	A	Yangon	Member	Female	Electronic accessories	68.84	6	20.652	433.692	25-02-2019	14:36	Ewallet	413.04	4.76

sales 1 ×

Action Output

#	Time	Action	Message	Duration / Fetch
149	23:13:22	SHOW TABLES FROM 'retail_mart' like 'supermarket_sales_-_sheet1'	OK	0.000 sec
150	23:13:27	CREATE TABLE 'retail_mart`.`supermarket_sales_-_sheet1` ('Invoice ID'text, 'Branch'...	OK	0.000 sec
151	23:13:27	PREPARE stmt FROM 'INSERT INTO 'retail_mart`.`supermarket_sales_-_sheet1` ('I...	OK	0.000 sec
152	23:13:30	DEALLOCATE PREPARE stmt	OK	0.000 sec
153	23:14:08	rename table 'retail_mart`.`supermarket_sales_-_sheet1` to sales	0 row(s) affected	0.015 sec
154	23:15:33	select * from sales LIMIT 0, 2000	1000 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Screenshot 3: Changing the ‘Date’ Column using str_to_date function and modifying the data type from ‘text’ to ‘date’

MySQL Workbench

Local instance MySQL80 ×

File Edit View Query Database Server Tools Scripting Help

Navigator: Grp1001_RetailMart Ltd - Super... ×

SCHEMAS

Filter objects

computer_manufactures
db_acredian
db_movies
employee_management
mavenmovies
retail_ex
retail_mart

Tables

sales

Columns
Indexes
Foreign Keys

Administration Schemas

Information :

Table: sales

Columns:

Invoice ID	text
Branch	text
City	text
Customer	text
type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax %	double
Total	double
Date	date
Time	text
Payment	text
cogs	double
gross margin percentage	double

Object Info Session

1 • create database retail_mart;
2 • use retail_mart;
3 • rename table `retail_mart`.`supermarket_sales_-_sheet1` to sales;
4 • select * from sales;
5
6 • select *, str_to_date(`Date`, '%d-%c-%Y') from sales;
7 • update sales
8 set `Date` = str_to_date(`Date`, '%d-%c-%Y');
9 • select * from sales;
10 • alter table sales
11 modify column `Date` date;

Output

Action Output

#	Time	Action	Message	Duration / Fetch
153	23:14:08	rename table `retail_mart`.`supermarket_sales_-_sheet1` to sales	0 row(s) affected	0.015 sec
154	23:15:33	select * from sales LIMIT 0, 2000	1000 row(s) returned	0.000 sec / 0.000 sec
155	23:16:24	select *, str_to_date('Date', '%d-%c-%Y') from sales LIMIT 0, 2000	1000 row(s) returned	0.000 sec / 0.000 sec
156	23:16:30	update sales set `Date` = str_to_date(`Date`, '%d-%c-%Y')	1000 row(s) affected Rows matched: 1000 Changed: 1000 Warnings: 0	0.015 sec
157	23:16:33	select * from sales LIMIT 0, 2000	1000 row(s) returned	0.015 sec / 0.000 sec
158	23:18:53	alter table sales modify column `Date` date	1000 row(s) affected Records: 1000 Duplicates: 0 Warnings: 0	0.047 sec

Query Completed

Screenshot 4: Question 1. What is the total sales revenue generated by each branch?

MySQL Workbench

File Edit View Query Database Server Tools Help

Navigator: Grp1001_RetailMart Ltd - Super... ×

SCHEMAS

- computer_manufactures
- db_acredian
- db_movies
- employee_management
- mavenmovies
- retail_ex
- retail_mart
 - Tables
 - sales

Administration Schemas

Information:

Table: sales

Columns:

Invoice ID	text
Branch	text
City	text
Customer type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax %	double
Total	double
Date	date
Time	text
Payment	text
cogs	double
gross margin percentage	double

Object Info Session

Query Grid | Result Grid | Form Editor | Read Only

Result Grid | Filter Rows: Export: Wrap Cell Content: | Result 31 ×

```
9 •    select * from sales;
10 •   alter table sales
11     modify column `Date` date;
12
13 # 1.  What is the total sales revenue generated by each branch?
14 •   select Branch, round(sum(Total),0) as `Total Sales Revenue` from sales
15     group by Branch;
```

Branch	Total Sales Revenue
A	106200
C	110569
B	106198

Action Output

#	Time	Action	Message	Duration / Fetch
190	23:38:38	select 'Invoice ID', round('gross income',2) as 'Gross Income' from sales where 'gro...	224 row(s) returned	0.000 sec / 0.000 sec
191	23:39:07	select 'Invoice ID', round('gross income',2) as 'Gross Income' from sales where 'gro...	224 row(s) returned	0.000 sec / 0.000 sec
192	23:39:53	alter table sales modify column 'Date' date	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
193	23:39:54	alter table sales modify column 'Date' date	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
194	23:40:00	select Branch, round(sum(Total),0) as 'Total Sales Revenue' from sales group by Br...	3 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Screenshot 5: Question 2. Which product line has the highest number of purchases?

MySQL Workbench

File Edit View Query Database Server Tools Help

Navigator: Grp1001_RetailMart Ltd - Super... x

SCHEMAS

- computer_manufactures
- db_acredian
- db_movies
- employee_management
- mavenmovies
- retail_ex
- retail_mart
 - Tables
 - sales

Administration Schemas

Information:

Table: sales

Columns:

Column	Type
Invoice ID	text
Branch	text
City	text
Customer type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax %	double
Total	double
Date	date
Time	text
Payment	text
cogs	double
gross margin percentage	double

Object Info Session

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

Product line No. of Purchases

Product line	No. of Purchases
Health and beauty	152
Electronic accessories	170
Home and lifestyle	160
Sports and travel	166
Food and beverages	174
Fashion accessories	178

Result 32 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
191	23:39:07	select 'Invoice ID', round('gross income',2) as 'Gross Income' from sales where 'gro...' 224 row(s) returned	224 row(s) returned	0.000 sec / 0.000 sec
192	23:39:53	alter table sales modify column 'Date' date	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
193	23:39:54	alter table sales modify column 'Date' date	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
194	23:40:00	select Branch, round(sum(Total),0) as 'Total Sales Revenue' from sales group by Br...	3 row(s) returned	0.000 sec / 0.000 sec
195	23:41:58	select 'Product line', count('Invoice ID') as 'No. of Purchases' from sales group by '...	6 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Screenshot 6: Question 3. How does each customer type contribute to total sales?

MySQL Workbench

File Edit View Query Database Server Tools Help

Navigator: Grp1001_RetailMart Ltd - Super... x

SCHEMAS

- computer_manufactures
- db_acredian
- db_movies
- employee_management
- mavenmovies
- retail_ex
- retail_mart**
- Tables
- sales
- Columns
- Indexes
- Foreign Keys

Administration Schemas

Information:

Table: sales

Columns:

Invoice ID	text
Branch	text
City	text
Customer type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax %	double
Total	double
Date	date
Time	text
Payment	text
cogs	double
gross margin percentage	double

Object Info Session

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

17 # 2. Which product line has the highest number of purchases?
18 • select `Product line`, count(`Invoice ID`) as `No. of Purchases` from sales
19 group by `Product line`;
20
21 # 3. How does each customer type contribute to total sales?
22 • select `Customer type`, round(sum(Total),0) as `Contribution to Total Sales` from sales
23 group by `Customer type`;

Result Grid

Customer type	Contribution to Total Sales
Member	164223
Normal	158743

Result 33 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
192	23:39:53	alter table sales modify column 'Date' date	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.015 sec
193	23:39:54	alter table sales modify column 'Date' date	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
194	23:40:00	select Branch, round(sum(Total),0) as 'Total Sales Revenue' from sales group by Br...	3 row(s) returned	0.000 sec / 0.000 sec
195	23:41:58	select 'Product line', count('Invoice ID') as 'No. of Purchases' from sales group by '...	6 row(s) returned	0.000 sec / 0.000 sec
196	23:42:17	select 'Customer type', round(sum(Total),0) as 'Contribution to Total Sales' from sale...	2 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Screenshot 7: Question 4. Which payment method has been used the most for purchases?

MySQL Workbench

File Edit View Query Database Server Tools Help

Navigator: Grp1001_RetailMart Ltd - Super... x

SCHEMAS

- computer_manufactures
- db_acredian
- db_movies
- employee_management
- mavenmovies
- retail_ex
- retail_mart
 - Tables
 - sales

Administration Schemas

Information:

Table: sales

Columns:

Invoice ID	text
Branch	text
City	text
Customer type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax %	double
Total	double
Date	date
Time	text
Payment	text
cogs	double
gross margin percentage	double

Object Info Session

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

Result Grid

```
21 # 3. How does each customer type contribute to total sales?
22 • select `Customer type`, round(sum(Total),0) as `Contribution to Total Sales` from sales
23 group by `Customer type`;
24
25 # 4. Which payment method has been used the most for purchases?
26 • select Payment, count(`Invoice Id`) as Transactions, rank() over(order by (count(`Invoice ID`)) desc) as `Rank` from sales
27 group by Payment;
```

Result Grid

Payment	Transactions	Rank
Ewallet	345	1
Cash	344	2
Credit card	311	3

Result 34 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
193	23:39:54	alter table sales modify column 'Date' date	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.016 sec
194	23:40:00	select Branch, round(sum(Total),0) as 'Total Sales Revenue' from sales group by Br...	3 row(s) returned	0.000 sec / 0.000 sec
195	23:41:58	select 'Product line', count('Invoice ID') as 'No. of Purchases' from sales group by '...	6 row(s) returned	0.000 sec / 0.000 sec
196	23:42:17	select 'Customer type', round(sum(Total),0) as 'Contribution to Total Sales' from sale...	2 row(s) returned	0.000 sec / 0.000 sec
197	23:42:43	select Payment, count('Invoice Id') as Transactions, rank() over(order by (count('Inv...	3 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Screenshot 8: Question 5. Which branch has the highest average customer rating?

MySQL Workbench

File Edit View Query Database Server Tools Help

Navigator: Grp1001_RetailMart Ltd - Super... x

SCHEMAS

- computer_manufactures
- db_acredian
- db_movies
- employee_management
- mavenmovies
- retail_ex
- retail_mart
 - Tables
 - sales
 - Columns
 - Indexes
 - Foreign Keys

Administration Schemas

Information:

Table: sales

Columns:

Invoice ID	text
Branch	text
City	text
Customer type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax %	double
Total	double
Date	date
Time	text
Payment	text
cogs	double
gross margin percentage	double

Object Info Session

Query Completed

26 • select Payment, count(`Invoice Id`) as Transactions, rank() over(order by (count(`Invoice ID`)) desc) as `Rank` from sales
27 group by Payment;
28
29 # 5. Which branch has the highest average customer rating?
30 • select Branch, City, round(Avg(Rating),2) as `Average Rating`, rank() over(order by Avg(Rating) desc) as `Rank` from sales
31 group by Branch, City
32 Limit 1;

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

Branch	City	Average Rating	Rank
C	Naypyitaw	7.07	1

Result 35 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
194	23:40:00	select Branch, round(sum(Total),0) as 'Total Sales Revenue' from sales group by Br...	3 row(s) returned	0.000 sec / 0.000 sec
195	23:41:58	select 'Product line', count('Invoice ID') as 'No. of Purchases' from sales group by ...	6 row(s) returned	0.000 sec / 0.000 sec
196	23:42:17	select 'Customer type', round(sum(Total),0) as 'Contribution to Total Sales' from sale...	2 row(s) returned	0.000 sec / 0.000 sec
197	23:42:43	select Payment, count('Invoice Id') as Transactions, rank() over(order by (count(`Inv...	3 row(s) returned	0.000 sec / 0.000 sec
198	23:43:08	select Branch, City, round(Avg(Rating),2) as `Average Rating`, rank() over(order by ...	1 row(s) returned	0.000 sec / 0.000 sec

Screenshot 9: Question 6. What are the top 5 highest sales transactions recorded?

MySQL Workbench

File Edit View Query Database Server Tools Help

Navigator: Grp1001_RetailMart Ltd - Super... x

SCHEMAS

- computer_manufactures
- db_acredian
- db_movies
- employee_management
- mavenmovies
- retail_ex
- retail_mart
 - Tables
 - sales

Administration Schemas

Information:

Table: sales

Columns:

Invoice ID	text
Branch	text
City	text
Customer type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax %	double
Total	double
Date	date
Time	text
Payment	text
cogs	double
gross margin percentage	double

Object Info Session

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

```
31     group by Branch, City
32     Limit 1;
33
34     # 6.    What are the top 5 highest sales transactions recorded?
35 •   select `Invoice ID`, Total as `Total Transaction Value` from sales
36     order by total desc
37     limit 5;
38
```

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

Invoice ID	Total Transaction Value
860-79-0874	1042.65
687-47-8271	1039.29
283-26-5248	1034.46
751-41-9720	1023.75
303-96-2227	1022.49

sales 36 x Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
195	23:41:58	select 'Product line', count('Invoice ID') as 'No. of Purchases' from sales group by ...	6 row(s) returned	0.000 sec / 0.000 sec
196	23:42:17	select 'Customer type', round(sum(Total),0) as 'Contribution to Total Sales' from sale...	2 row(s) returned	0.000 sec / 0.000 sec
197	23:42:43	select Payment, count('Invoice Id') as Transactions, rank() over(order by (count('Inv...)	3 row(s) returned	0.000 sec / 0.000 sec
198	23:43:08	select Branch, City, round(Avg(Rating),2) as 'Average Rating', rank() over(order by ...	1 row(s) returned	0.000 sec / 0.000 sec
199	23:43:31	select 'Invoice ID', Total as 'Total Transaction Value' from sales order by total desc...	5 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Screenshot 10: Question 7. What is the total revenue generated in each city?

MySQL Workbench

File Edit View Query Database Server Tools Scripting Help

Navigator: Grp1001_RetailMart Ltd - Super... ×

SCHEMAS

- computer_manufactures
- db_acredian
- db_movies
- employee_management
- mavenmovies
- retail_ex
- retail_mart
 - Tables
 - sales

Administration Schemas

Information:

Table: sales

Columns:

Invoice ID	text
Branch	text
City	text
Customer type	text
Gender	text
Product line	text
Unit price	double
Quantity	int
Tax %	double
Total	double
Date	date
Time	text
Payment	text
cogs	double
gross margin percentage	double

Object Info Session

Query Grid

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

36 order by total desc
37 limit 5;
38
39 # 7. What is the total revenue generated in each city?
40 • select City, round(sum(Total),0) as `Total Revenue` from sales
41 group by City
42 order by `Total Revenue` desc;

Result Grid

City	Total Revenue
Naypyitaw	110569
Yangon	106200
Mandalay	106198

Export recordset to an external file

Result 37 × Read Only

Action Output

#	Time	Action	Message	Duration / Fetch
196	23:42:17	select 'Customer type', round(sum(Total),0) as 'Contribution to Total Sales' from sale...	2 row(s) returned	0.000 sec / 0.000 sec
197	23:42:43	select Payment, count('Invoice Id') as Transactions, rank() over(order by (count('Inv...)	3 row(s) returned	0.000 sec / 0.000 sec
198	23:43:08	select Branch, City, round(Avg(Rating),2) as 'Average Rating', rank() over(order by ...	1 row(s) returned	0.000 sec / 0.000 sec
199	23:43:31	select 'Invoice ID', Total as 'Total Transaction Value' from sales order by total desc...	5 row(s) returned	0.000 sec / 0.000 sec
200	23:43:59	select City, round(sum(Total),0) as 'Total Revenue' from sales group by City order by...	3 row(s) returned	0.000 sec / 0.000 sec

Query Completed

Screenshot 11: Question 8. Which transactions resulted in a gross income below a specified threshold (e.g., 5)?

MySQL Workbench

Local instance MySQL80 (retail_mart) Local instance MySQL80

File Edit View Query Database Server Tools Scripting Help

Navigator: Grp1001_RetailMart Ltd - Super... ▾

SCHEMAS

Filter objects

- computer_manufactures
- db_acredian
- db_movies
- employee_management
- mavenmovies
- retail_ex
- retail_mart
 - Tables
 - sales
 - Columns
 - Indexes
 - Foreign Keys

Administration Schemas

Information:

Table: sales

Columns:

Invoice ID	Gross Income
883-69-1285	4.99
250-81-7186	4.98
214-17-6927	4.94
233-34-0817	4.94
634-97-8956	4.93
401-18-8016	4.91
241-96-5076	4.91
101-00-0001	4.91

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

Result Grid | Form Editor

Result 38 | Read Only

Output:

Action Output

#	Time	Action	Message	Duration / Fetch
197	23:42:43	select Payment, count('Invoice Id') as Transactions, rank() over(order by (count('Inv...))	3 row(s) returned	0.000 sec / 0.000 sec
198	23:43:08	select Branch, City, round(Avg(Rating),2) as 'Average Rating', rank() over(order by ...)	1 row(s) returned	0.000 sec / 0.000 sec
199	23:43:31	select 'Invoice ID', Total as 'Total Transaction Value' from sales order by total desc...	5 row(s) returned	0.000 sec / 0.000 sec
200	23:43:59	select City, round(sum(Total),0) as 'Total Revenue' from sales group by City order by ...	3 row(s) returned	0.000 sec / 0.000 sec
201	23:44:41	select 'Invoice ID', round('gross income',2) as 'Gross Income' from sales where 'gro...	224 row(s) returned	0.000 sec / 0.000 sec

Object Info Session

Query Completed