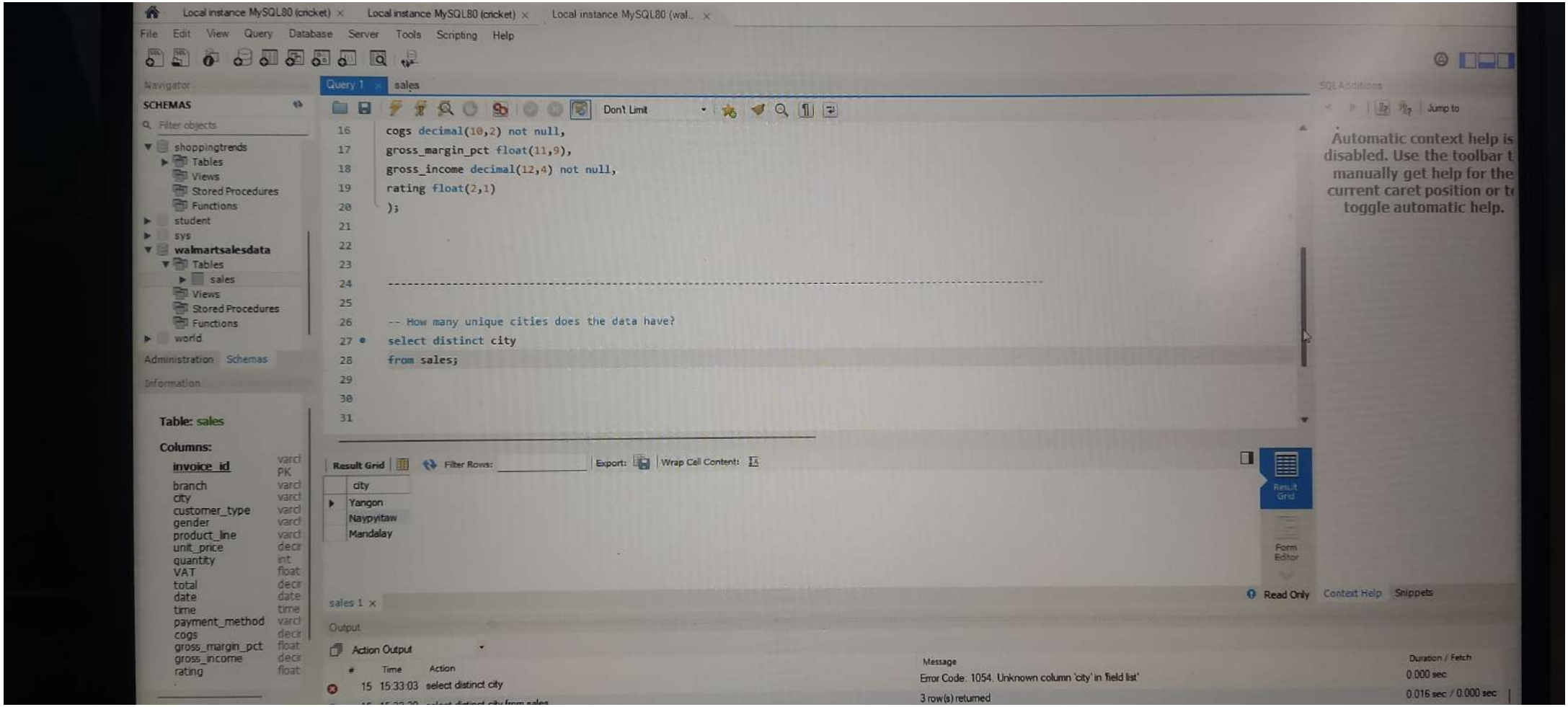
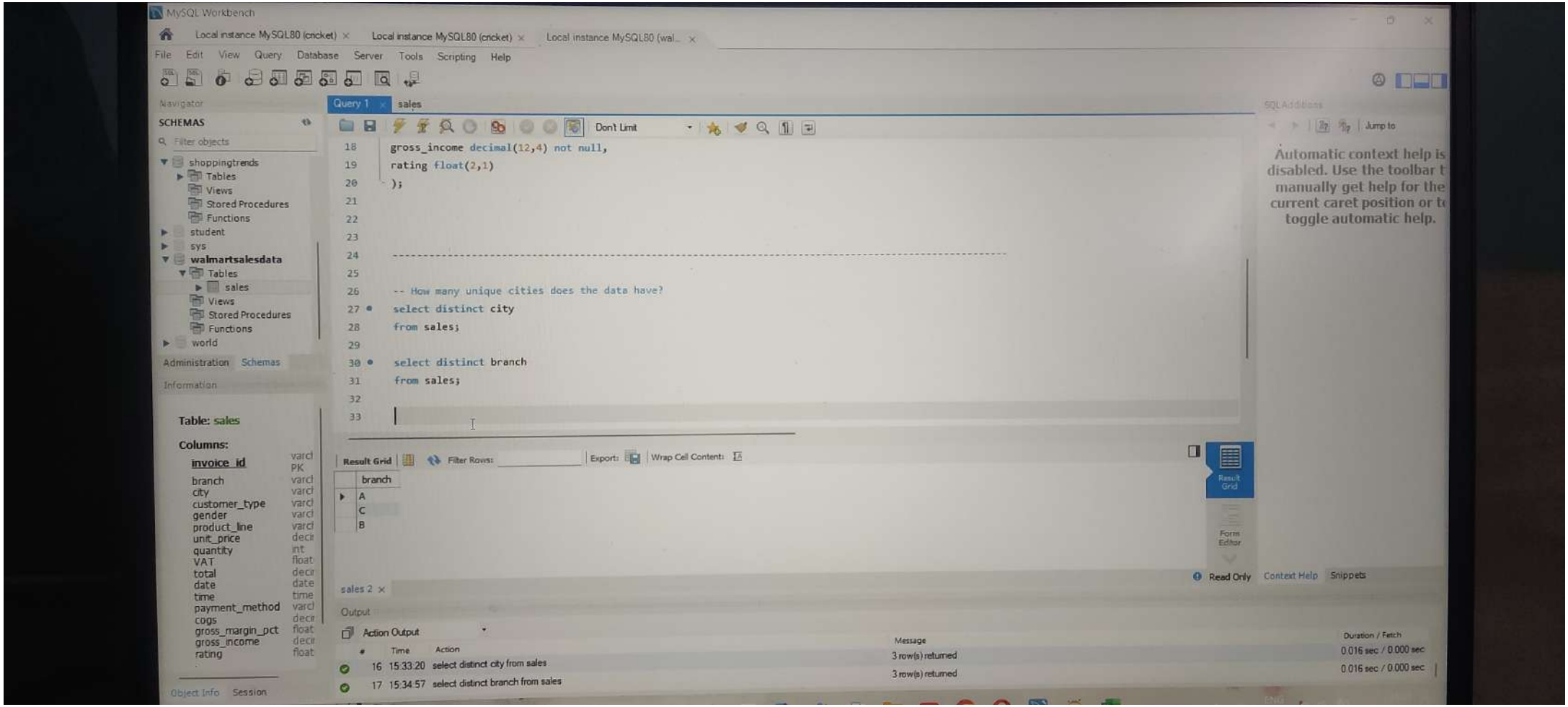
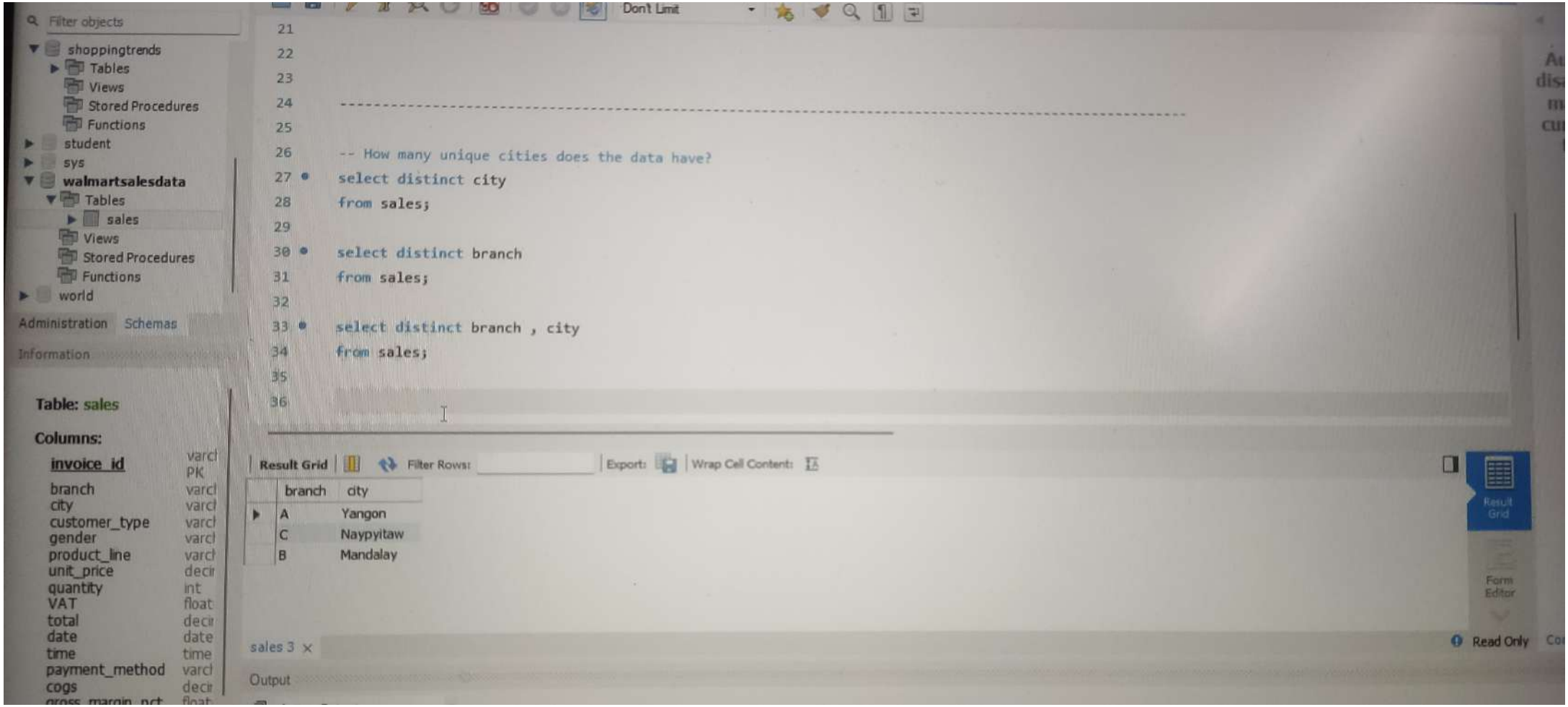
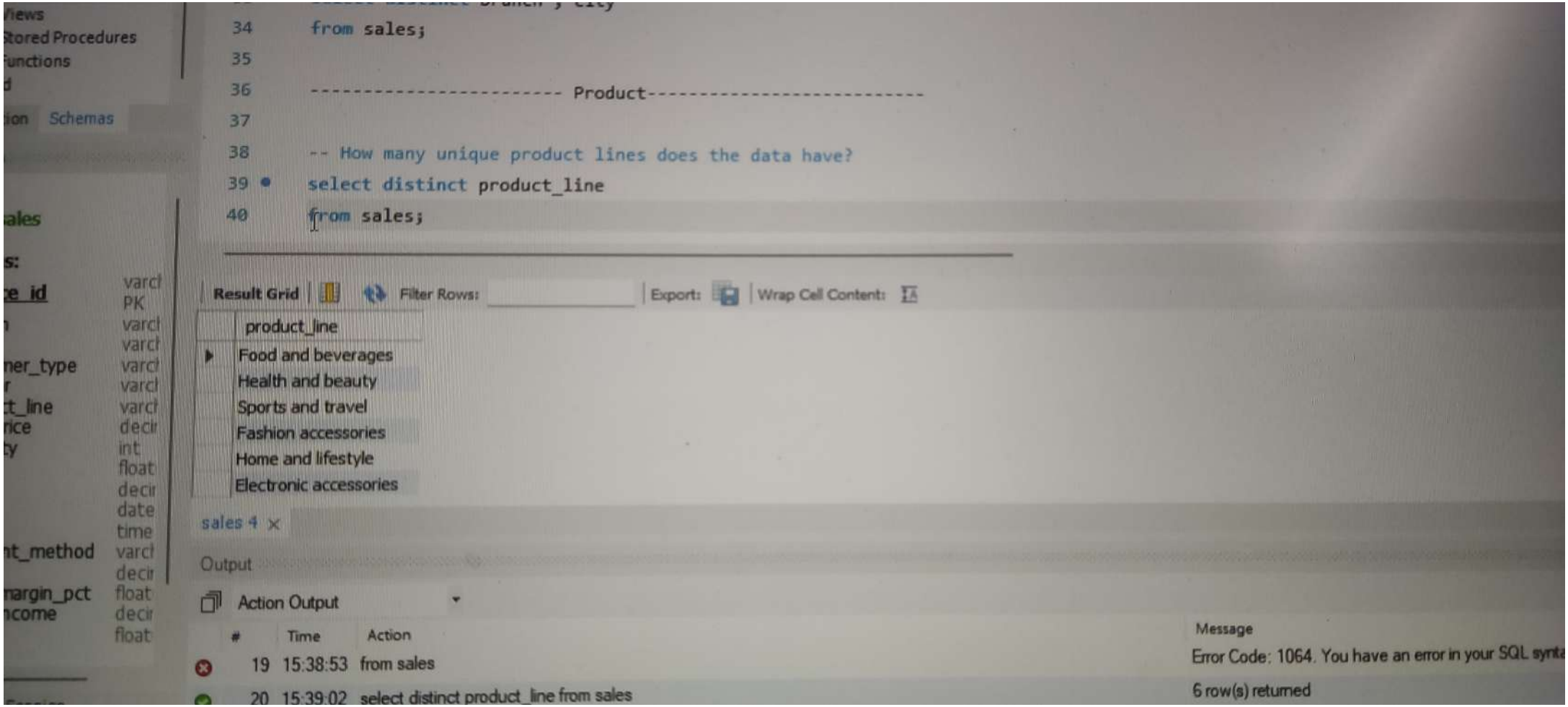
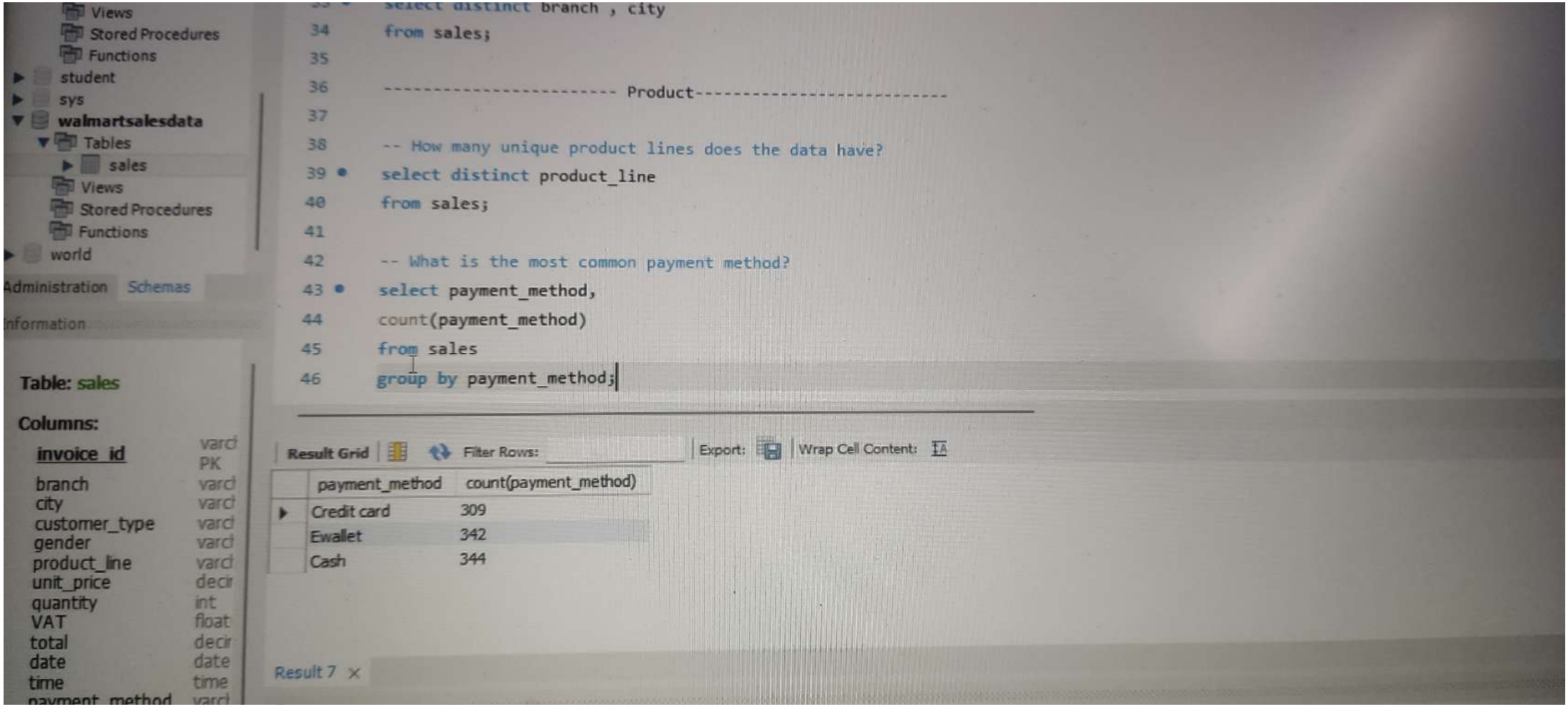
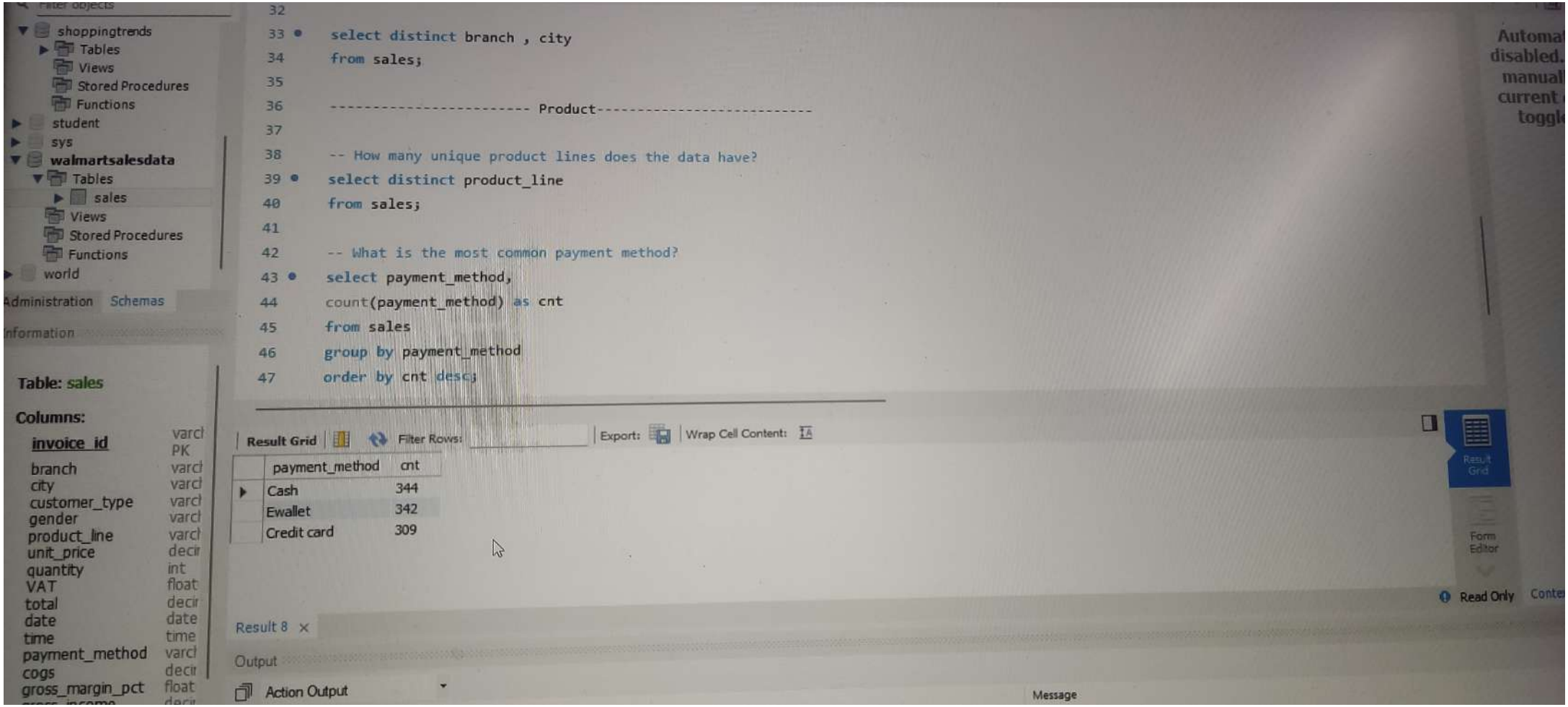

Local instance MySQL80 (cricket)
Local instance MySQL80 (cricket)
Local instance MySQL80 (wal...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
shoppingtrends
Tables
Views
Stored Procedures
Functions
student
sys
walmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
world
Administration Schemas
Information
Table: sales
Columns:
invoice_id varcl PK
branch varcl
city varcl
customer_type varcl
gender varcl
product_line varcl
unit_price decir
quantity int
VAT float
total decir
date date
time time
payment_method varcl
cogs decir
gross_margin_pct float
gross_income decir
rating float
Query 1
sales
Don't Limit
16 cogs decimal(10,2) not null,
17 gross_margin_pct float(11,9),
18 gross_income decimal(12,4) not null,
19 rating float(2,1)
20);
21
22
23
24 ----------
25
26 -- How many unique cities does the data have?
27 select distinct city
28 from sales;
29
30
31
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
city
Yangon
Naypyitaw
Mandalay
Result Grid
Form Editor
Read Only
Context Help
Snippets
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.
sales 1
Output
Action Output
Time Action
15 15:33:03 select distinct city
Message
Error Code: 1054. Unknown column 'city' in 'field list'
3 row(s) returned
Duration / Fetch
0.000 sec
0.016 sec / 0.000 sec

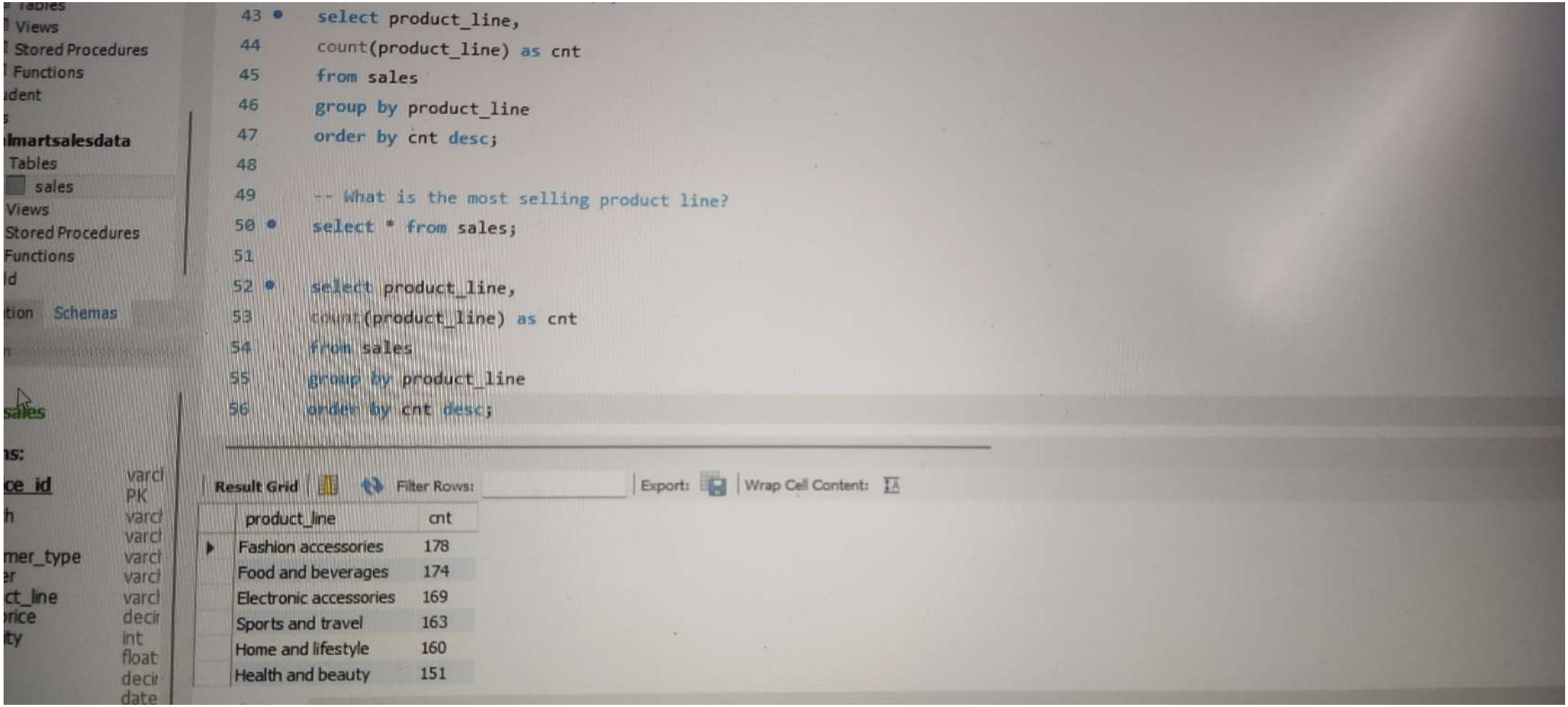

MySQL Workbench
Local instance MySQL80 (cricket)
Local instance MySQL80 (cricket)
Local instance MySQL80 (wal...
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
shoppingtrends
Tables
Views
Stored Procedures
Functions
student
sys
walmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
world
Administration Schemas
Information
Table: sales
Columns:
invoice_id varcl PK
branch varcl
city varcl
customer_type varcl
gender varcl
product_line varcl
unit_price decir
quantity int
VAT float
total decir
date date
time time
payment_method varcl
cogs decir
gross_margin_pct float
gross_income decir
rating float
Object Info Session
Query 1
sales
Don't Limit
18 gross_income decimal(12,4) not null,
19 rating float(2,1)
20);
21
22
23
24 ----------
25
26 -- How many unique cities does the data have?
27 select distinct city
28 from sales;
29
30 select distinct branch
31 from sales;
32
33
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
branch
A
C
B
Result Grid
Form Editor
Read Only
Context Help
Snippets
sales 2
Output
Action Output
Time Action
16 15:33:20 select distinct city from sales
17 15:34:57 select distinct branch from sales
Message
3 row(s) returned
3 row(s) returned
Duration / Fetch
0.016 sec / 0.000 sec
0.016 sec / 0.000 sec
SQL Additions
Jump to
Automatic context help is disabled. Use the toolbar t manually get help for the current caret position or t toggle automatic help.

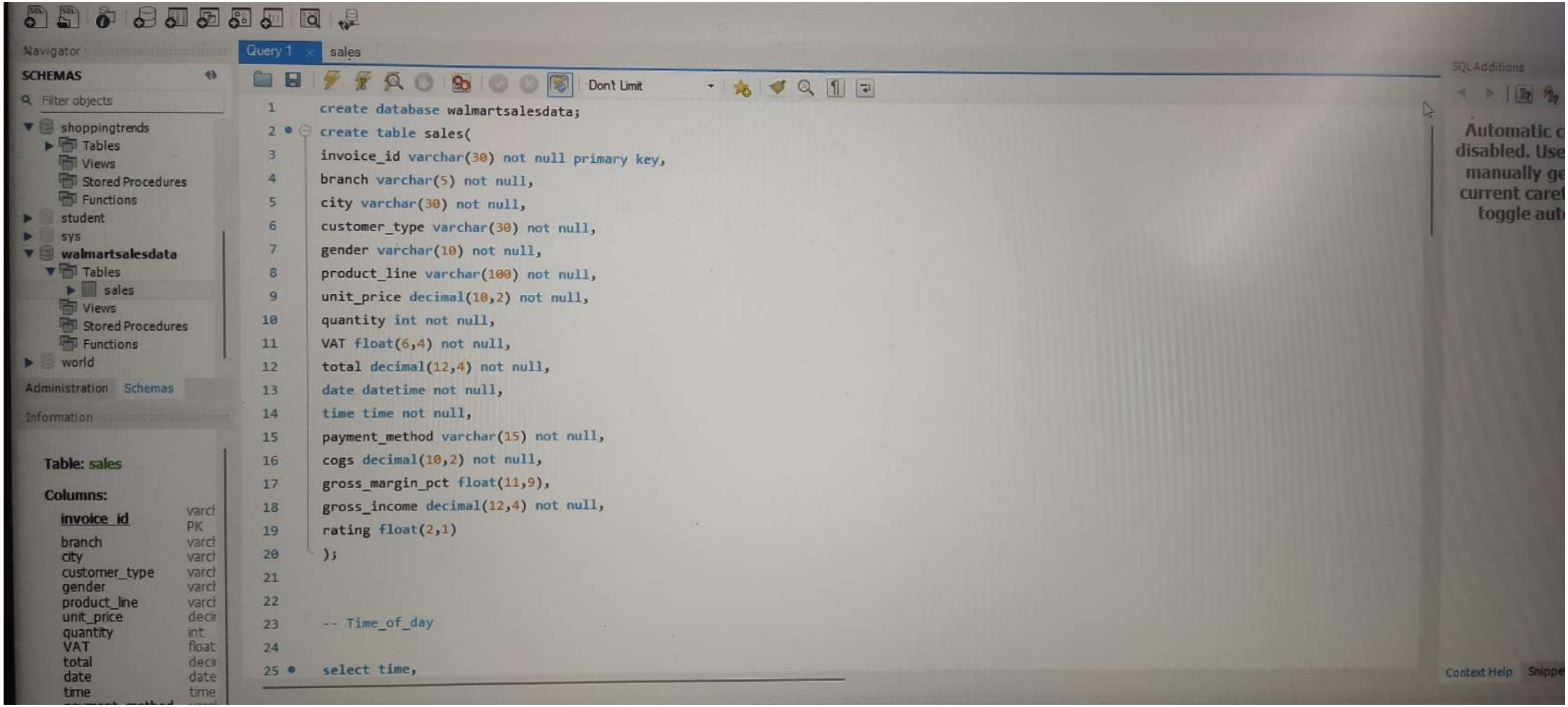

Filter objects
shoppingtrends
Tables
Views
Stored Procedures
Functions
student
sys
walmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
world
Administration
Schemas
Information
Table: sales
Columns:
invoice_id
branch
city
customer_type
gender
product_line
unit_price
quantity
VAT
total
date
time
payment_method
cogs
Don't Limit
21
22
23
24
25
26 -- How many unique cities does the data have?
27 select distinct city
28 from sales;
29
30 select distinct branch
31 from sales;
32
33 select distinct branch , city
34 from sales;
35
36
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
branch
city
A
Yangon
C
Naypyitaw
B
Mandalay
Result Grid
Form Editor
Read Only
sales 3
Output

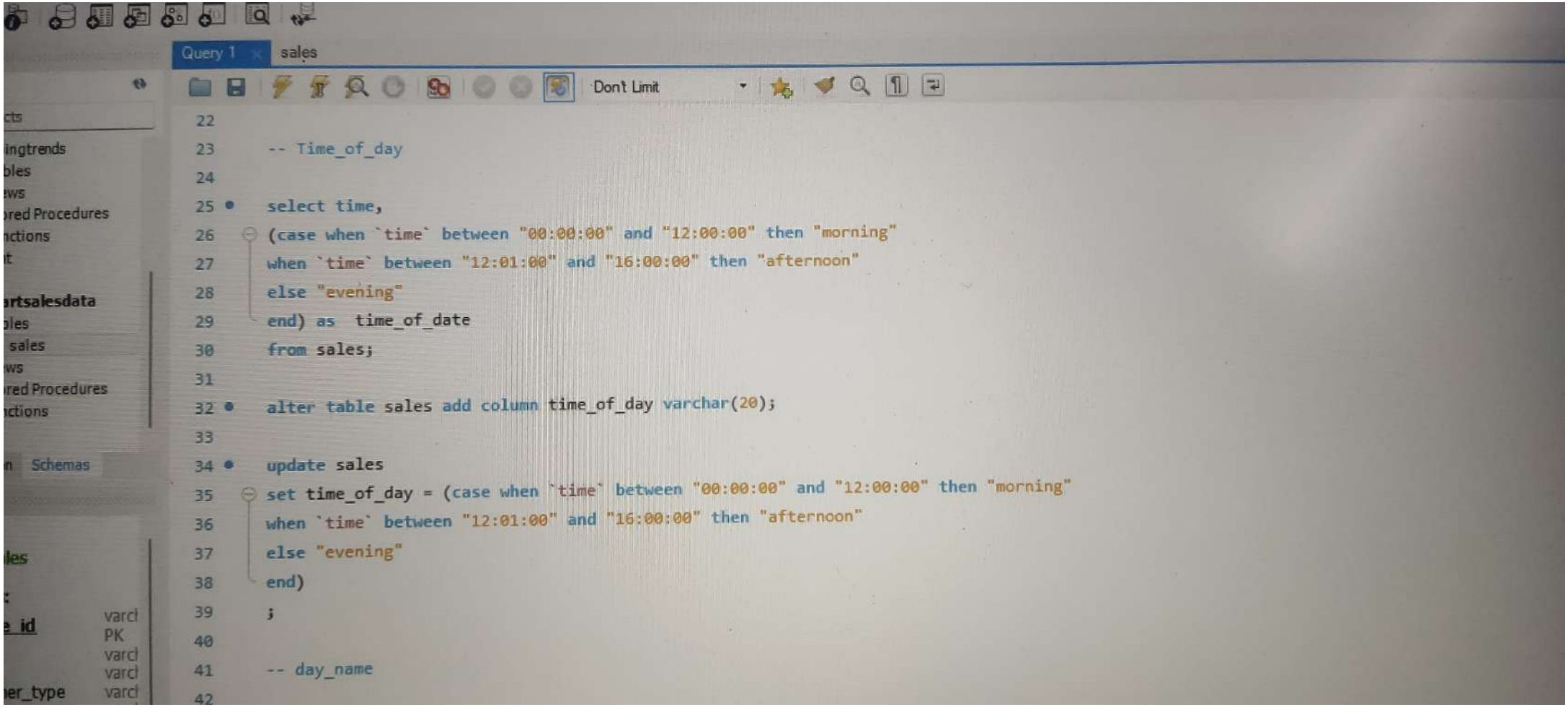

34 from sales;
36 ---------- Product----------
38 -- How many unique product lines does the data have?
39 select distinct product_line
40 from sales;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
product_line
Food and beverages
Health and beauty
Sports and travel
Fashion accessories
Home and lifestyle
Electronic accessories
sales 4
Output
Action Output
Time Action
19 15:38:53 from sales
20 15:39:02 select distinct product_line from sales
Message
Error Code: 1064. You have an error in your SQL
6 row(s) returned

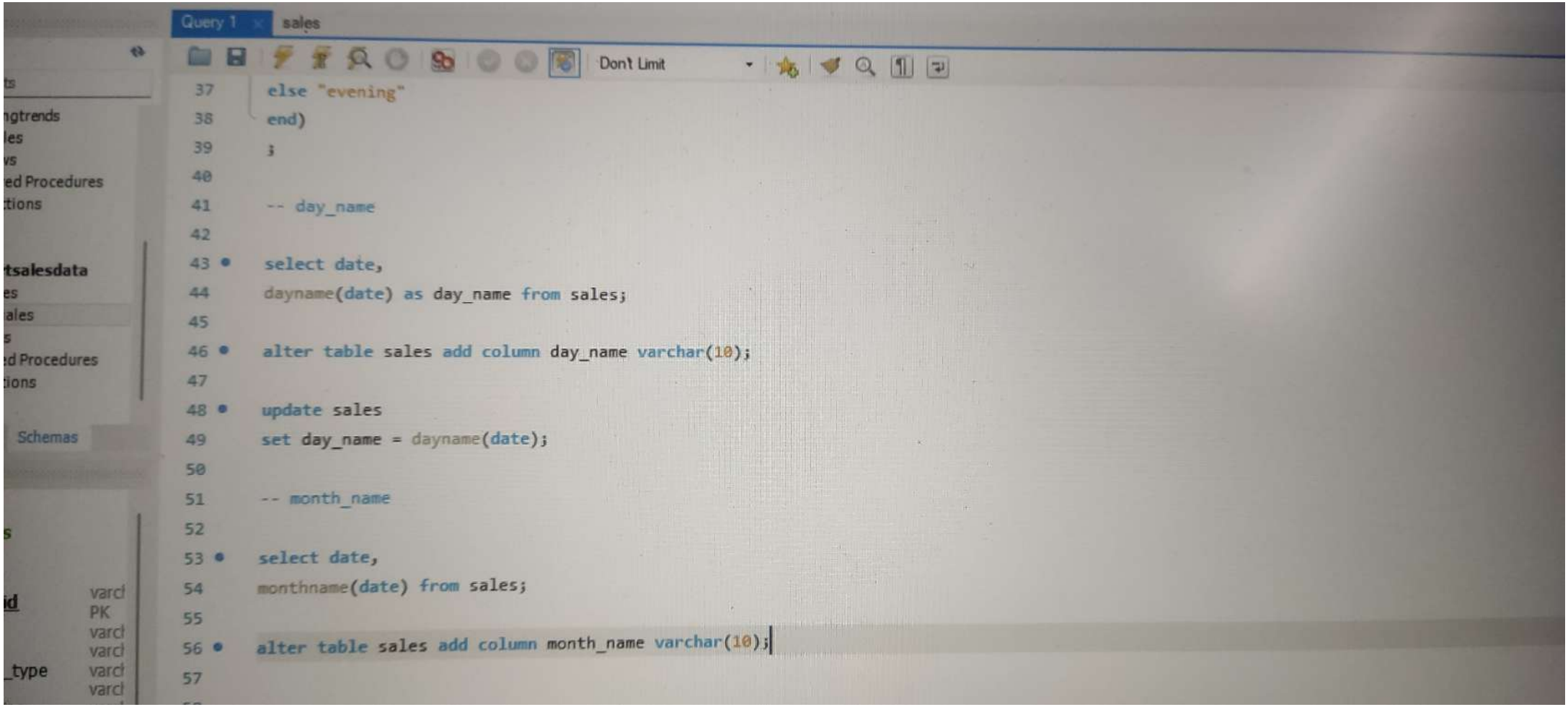

Views
Stored Procedures
Functions
student
sys
walmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
world
Administration
Schemas
Information
Table: sales
Columns:
invoice_id varcl PK
branch varcl
city varcl
customer_type varcl
gender varcl
product_line varcl
unit_price decir
quantity int
VAT float
total decir
date date
time time
payment_method varcl
select distinct branch , city
from sales;
---------- Product----------
-- How many unique product lines does the data have?
select distinct product_line
from sales;
-- What is the most common payment method?
select payment_method,
count(payment_method)
from sales
group by payment_method;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
payment_method
count(payment_method)
Credit card 309
Ewallet 342
Cash 344
Result 7

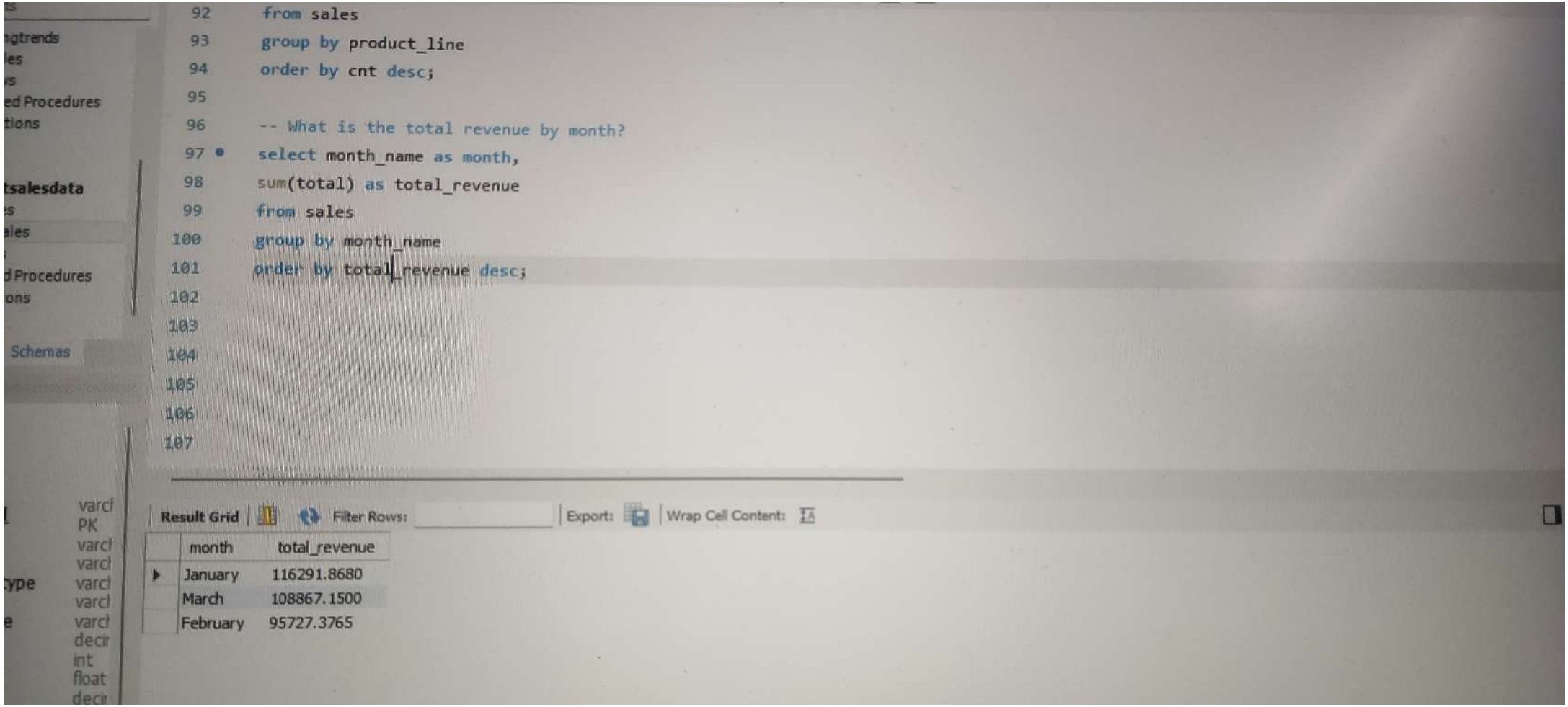

shoppingtrends
Tables
Views
Stored Procedures
Functions
student
sys
walmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
world
Administration
Schemas
Information
Table: sales
Columns:
invoice_id
branch
city
customer_type
gender
product_line
unit_price
quantity
VAT
total
date
time
payment_method
cogs
gross_margin_pct
32
33 select distinct branch , city
34 from sales;
35
36 ---------- Product----------
37
38 -- How many unique product lines does the data have?
39 select distinct product_line
40 from sales;
41
42 -- What is the most common payment method?
43 select payment_method,
44 count(payment_method) as cnt
45 from sales
46 group by payment_method
47 order by cnt desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
payment_method
cnt
Cash
344
Ewallet
342
Credit card
309
Result 8
Output
Action Output
Message
Read Only


Views
Stored Procedures
Functions
lmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
Schemas
43 select product_line,
44 count(product_line) as cnt
45 from sales
46 group by product_line
47 order by cnt desc;
48
49 -- What is the most selling product line?
50 select * from sales;
51
52 select product_line,
53 count(product_line) as cnt
54 from sales
55 group by product_line
56 order by cnt desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
product_line cnt
Fashion accessories 178
Food and beverages 174
Electronic accessories 169
Sports and travel 163
Home and lifestyle 160
Health and beauty 151


Navigator
SCHEMAS
Filter objects
shoppingtrends
Tables
Views
Stored Procedures
Functions
student
sys
walmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
world
Administration
Schemas
Information
Table: sales
Columns:
invoice_id
branch
city
customer_type
gender
product_line
unit_price
quantity
VAT
total
date
time
Query 1
sales
Don't Limit
1 create database walmartsalesdata;
2 create table sales(
3 invoice_id varchar(30) not null primary key,
4 branch varchar(5) not null,
5 city varchar(30) not null,
6 customer_type varchar(30) not null,
7 gender varchar(10) not null,
8 product_line varchar(100) not null,
9 unit_price decimal(10,2) not null,
10 quantity int not null,
11 VAT float(6,4) not null,
12 total decimal(12,4) not null,
13 date datetime not null,
14 time time not null,
15 payment_method varchar(15) not null,
16 cogs decimal(10,2) not null,
17 gross_margin_pct float(11,9),
18 gross_income decimal(12,4) not null,
19 rating float(2,1)
20);
21
22
23 -- Time_of_day
24
25 select time,
SQL Additions
Context Help


Query 1
sales
Don't Limit
-- Time_of_day
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"
end) as time_of_date
from sales;
alter table sales add column time_of_day varchar(20);
update sales
set time_of_day = (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"
end)
;
-- day_name
Schemas

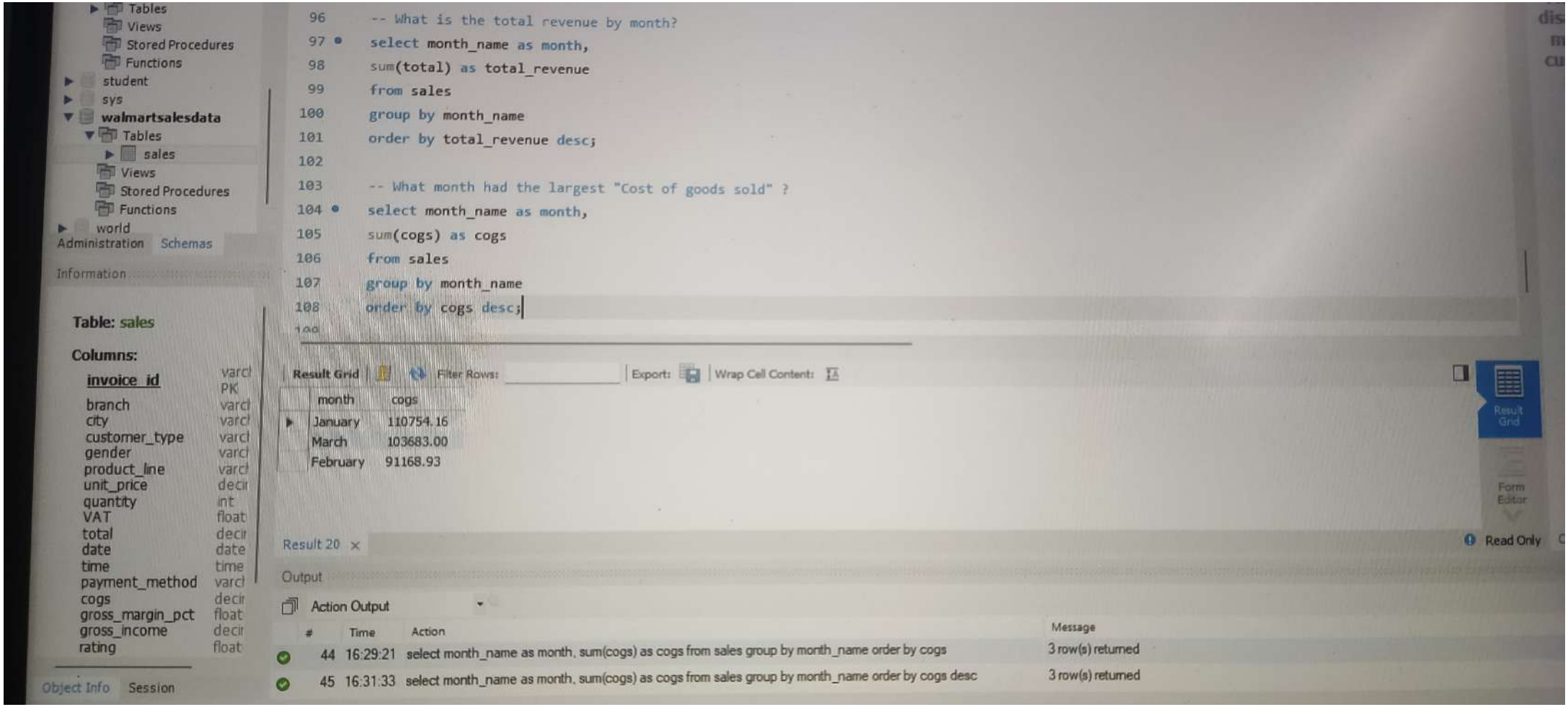

Query 1
sales
Don't Limit
else "evening"
end)
;
-- day_name
select date,
dayname(date) as day_name from sales;
alter table sales add column day_name varchar(10);
update sales
set day_name = dayname(date);
-- month_name
select date,
monthname(date) from sales;
alter table sales add column month_name varchar(10);
Schemas

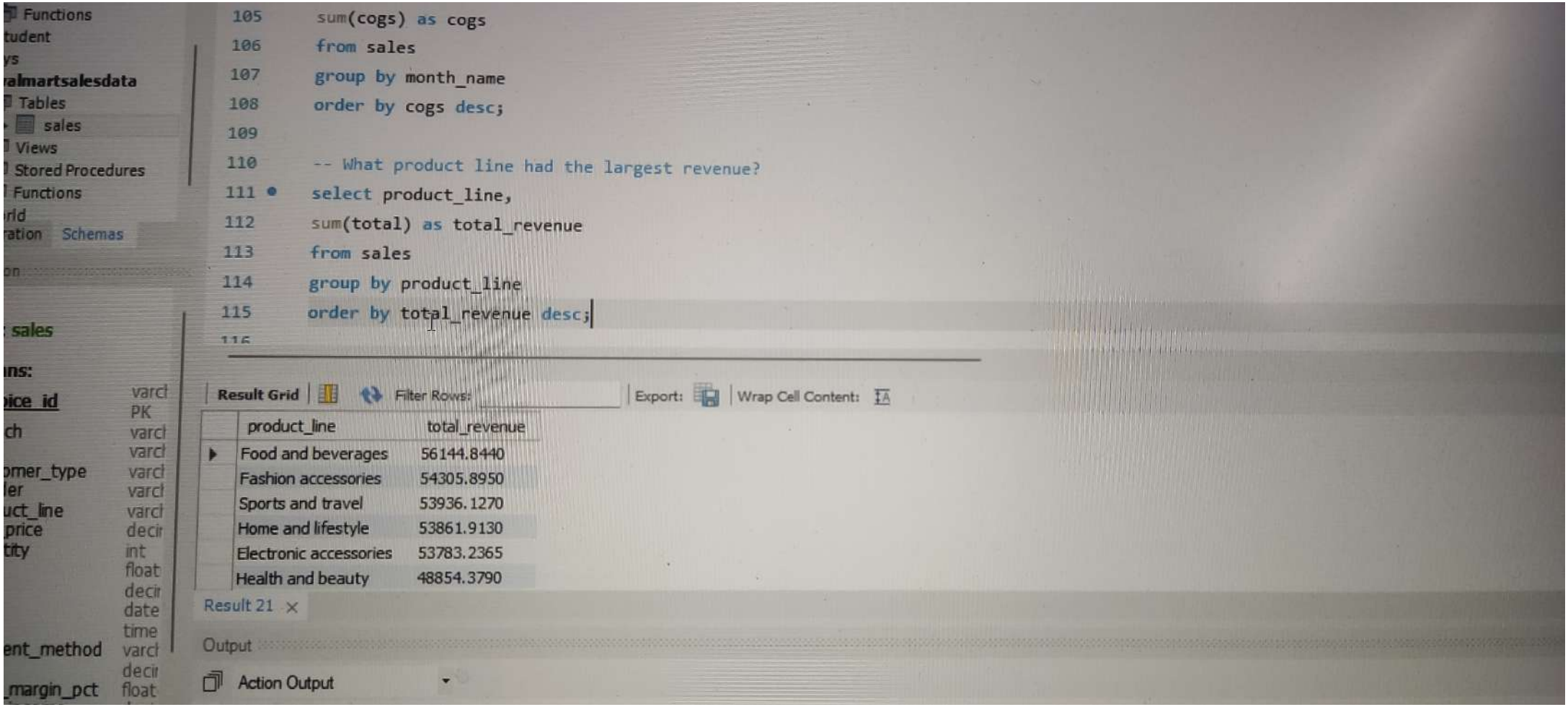


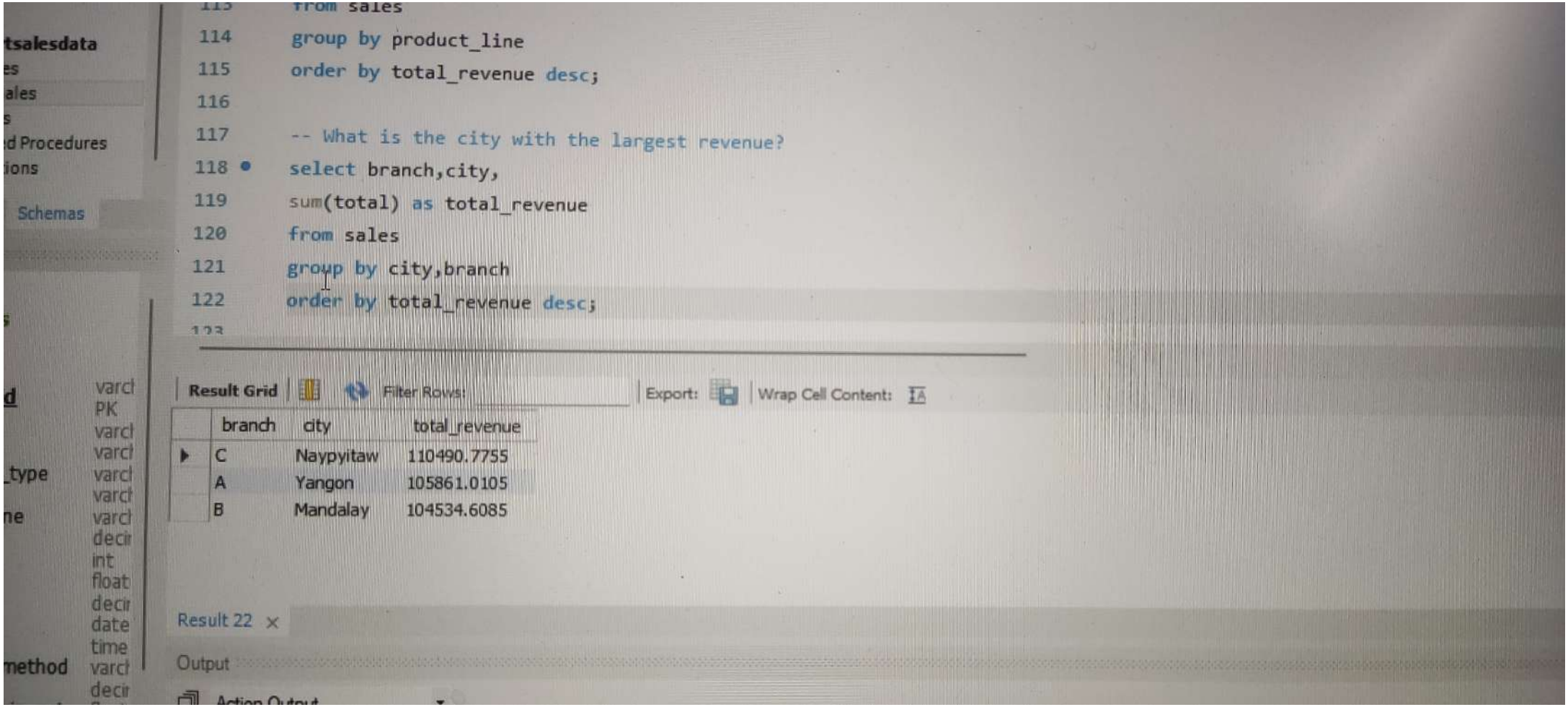
```
92    from sales
93    group by product_line
94    order by cnt desc;
95
96    -- What is the total revenue by month?
97    select month_name as month,
98    sum(total) as total_revenue
99    from sales
100   group by month_name
101   order by total_revenue desc;
102
103
104
105
106
107
```

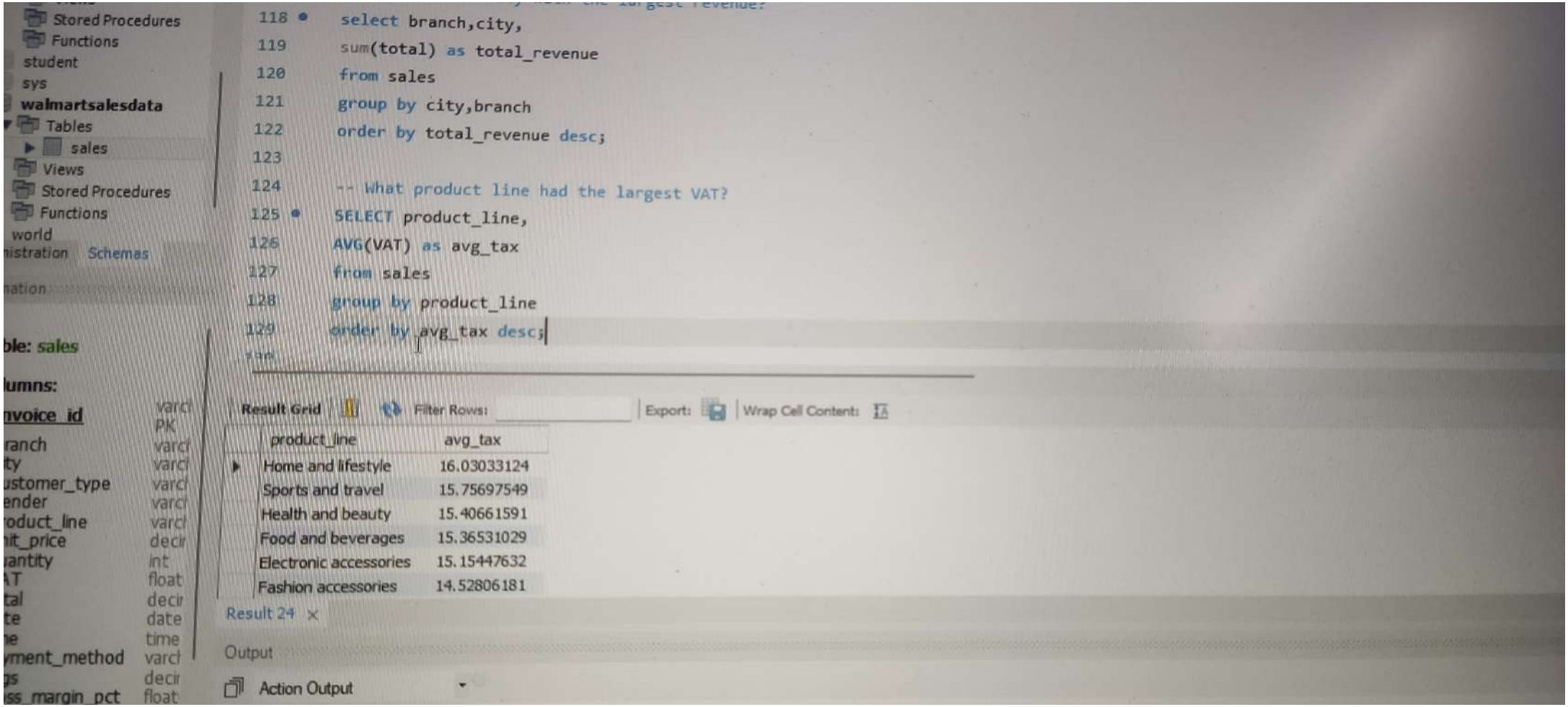
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

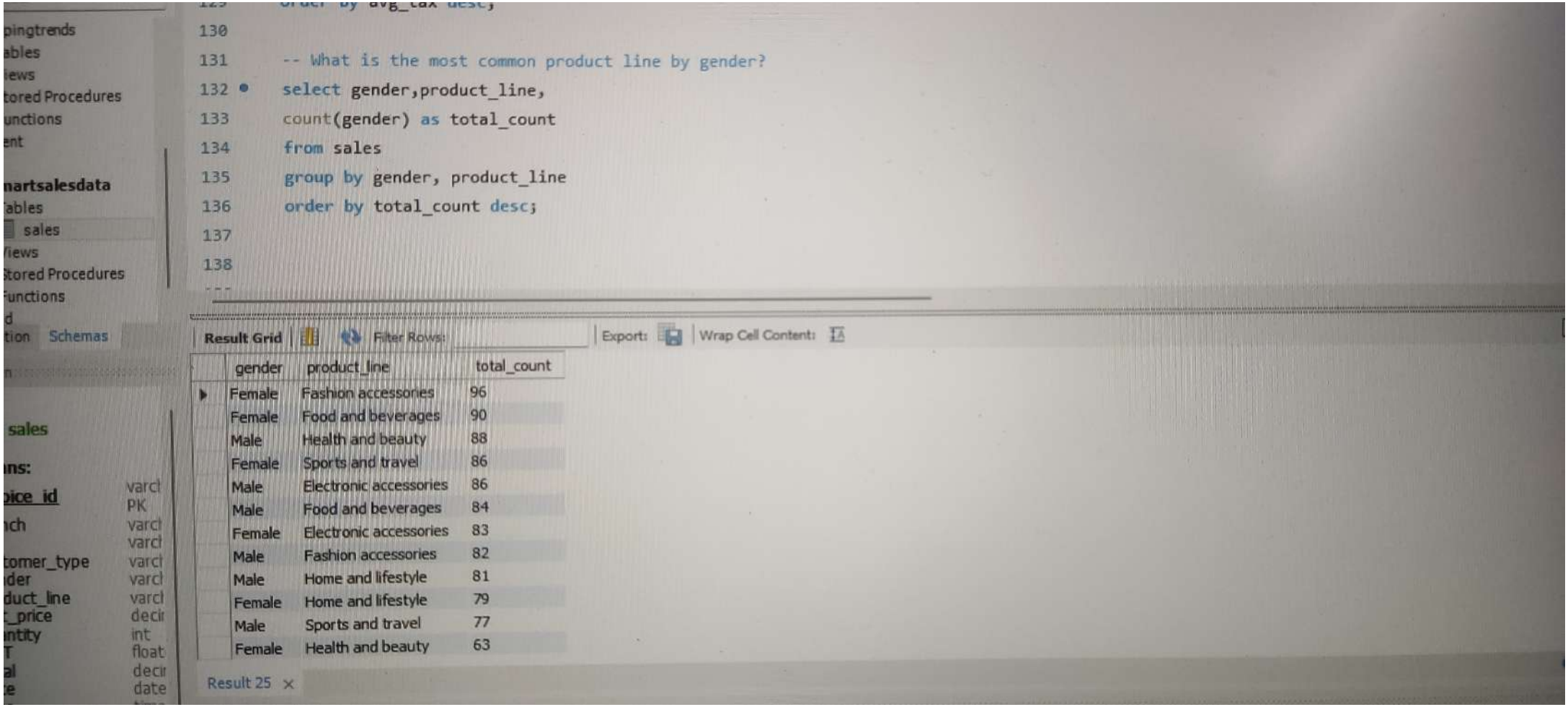
month	total_revenue
January	116291.8680
March	108867.1500
February	95727.3765


Tables
Views
Stored Procedures
Functions
student
sys
walmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
world
Administration
Schemas
Information
Table: sales
Columns:
invoice_id varcl PK
branch varcl
city varcl
customer_type varcl
gender varcl
product_line varcl
unit_price deci
quantity int
VAT float
total deci
date date
time time
payment_method varcl
cogs deci
gross_margin_pct float
gross_income deci
rating float
Object Info
Session
96 -- What is the total revenue by month?
97 select month_name as month,
98 sum(total) as total_revenue
99 from sales
100 group by month_name
101 order by total_revenue desc;
102
103 -- What month had the largest "Cost of goods sold" ?
104 select month_name as month,
105 sum(cogs) as cogs
106 from sales
107 group by month_name
108 order by cogs desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
month cogs
January 110754.16
March 103683.00
February 91168.93
Result Grid
Form Editor
Read Only
Result 20
Output
Action Output
Time Action Message
44 16:29:21 select month_name as month, sum(cogs) as cogs from sales group by month_name order by cogs 3 row(s) returned
45 16:31:33 select month_name as month, sum(cogs) as cogs from sales group by month_name order by cogs desc 3 row(s) returned


Functions
tudent
ys
almartsalesdata
Tables
sales
Views
Stored Procedures
Functions
rld
ration
Schemas
sales
ns:
ice_id
ch
mer_type
ler
uct_line
price
tity
ent_method
_margin_pct
105 sum(cogs) as cogs
106 from sales
107 group by month_name
108 order by cogs desc;
109
110 -- What product line had the largest revenue?
111 select product_line,
112 sum(total) as total_revenue
113 from sales
114 group by product_line
115 order by total_revenue desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
product_line
total_revenue
Food and beverages
56144.8440
Fashion accessories
54305.8950
Sports and travel
53936.1270
Home and lifestyle
53861.9130
Electronic accessories
53783.2365
Health and beauty
48854.3790
Result 21
Output
Action Output


from sales
group by product_line
order by total_revenue desc;
-- What is the city with the largest revenue?
select branch,city,
sum(total) as total_revenue
from sales
group by city,branch
order by total_revenue desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
branch city total_revenue
C Naypyitaw 110490.7755
A Yangon 105861.0105
B Mandalay 104534.6085
Result 22
Output
Schemas


Stored Procedures
Functions
student
sys
walmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
world
Schemas
118 select branch,city,
119 sum(total) as total_revenue
120 from sales
121 group by city,branch
122 order by total_revenue desc;
123
124 -- What product line had the largest VAT?
125 SELECT product_line,
126 AVG(VAT) as avg_tax
127 from sales
128 group by product_line
129 order by avg_tax desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
product_line avg_tax
Home and lifestyle 16.03033124
Sports and travel 15.75697549
Health and beauty 15.40661591
Food and beverages 15.36531029
Electronic accessories 15.15447632
Fashion accessories 14.52806181
Result 24
Output
Action Output

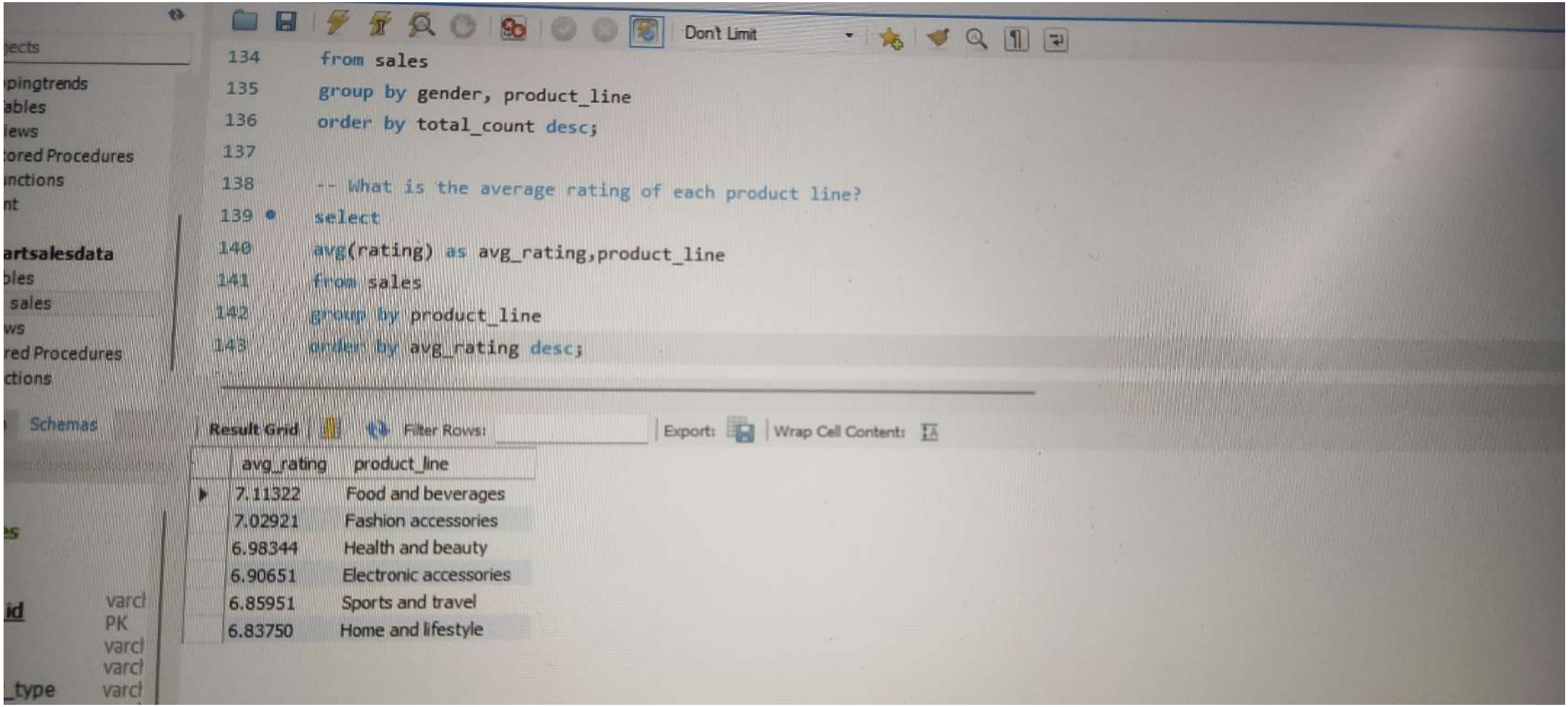


```
130
131     -- What is the most common product line by gender?
132 •   select gender,product_line,
133     count(gender) as total_count
134     from sales
135     group by gender, product_line
136     order by total_count desc;
137
138
```

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	86
Male	Electronic accessories	86
Male	Food and beverages	84
Female	Electronic accessories	83
Male	Fashion accessories	82
Male	Home and lifestyle	81
Female	Home and lifestyle	79
Male	Sports and travel	77
Female	Health and beauty	63

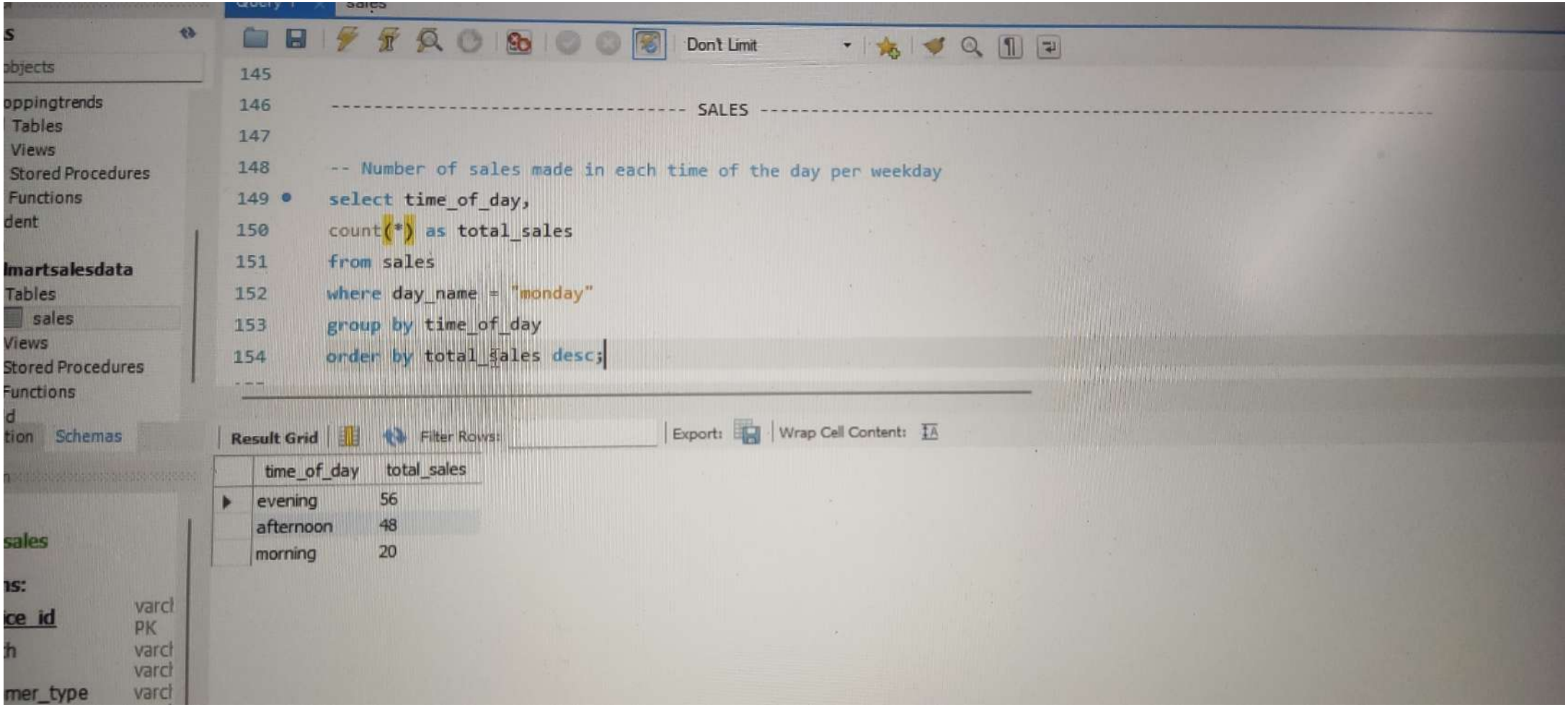
Result 25

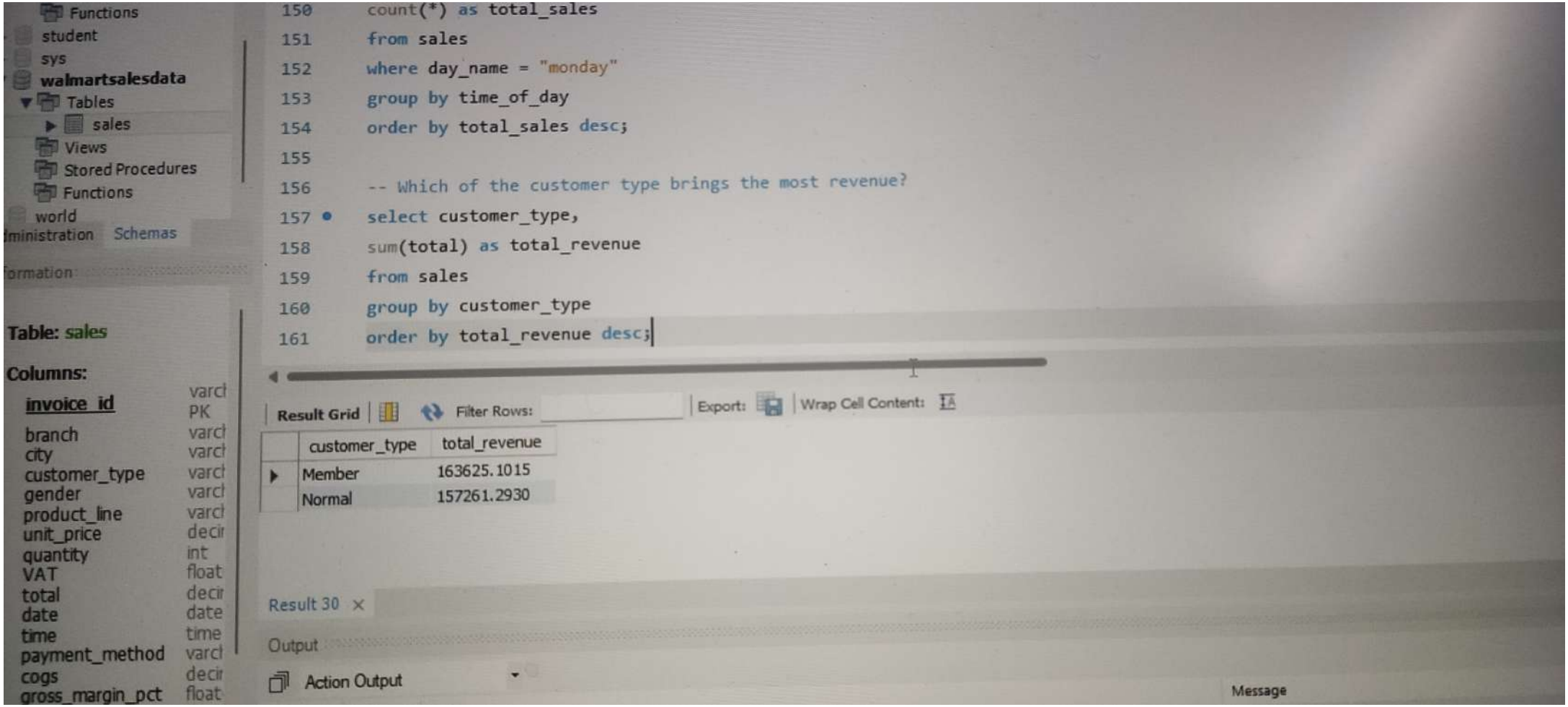


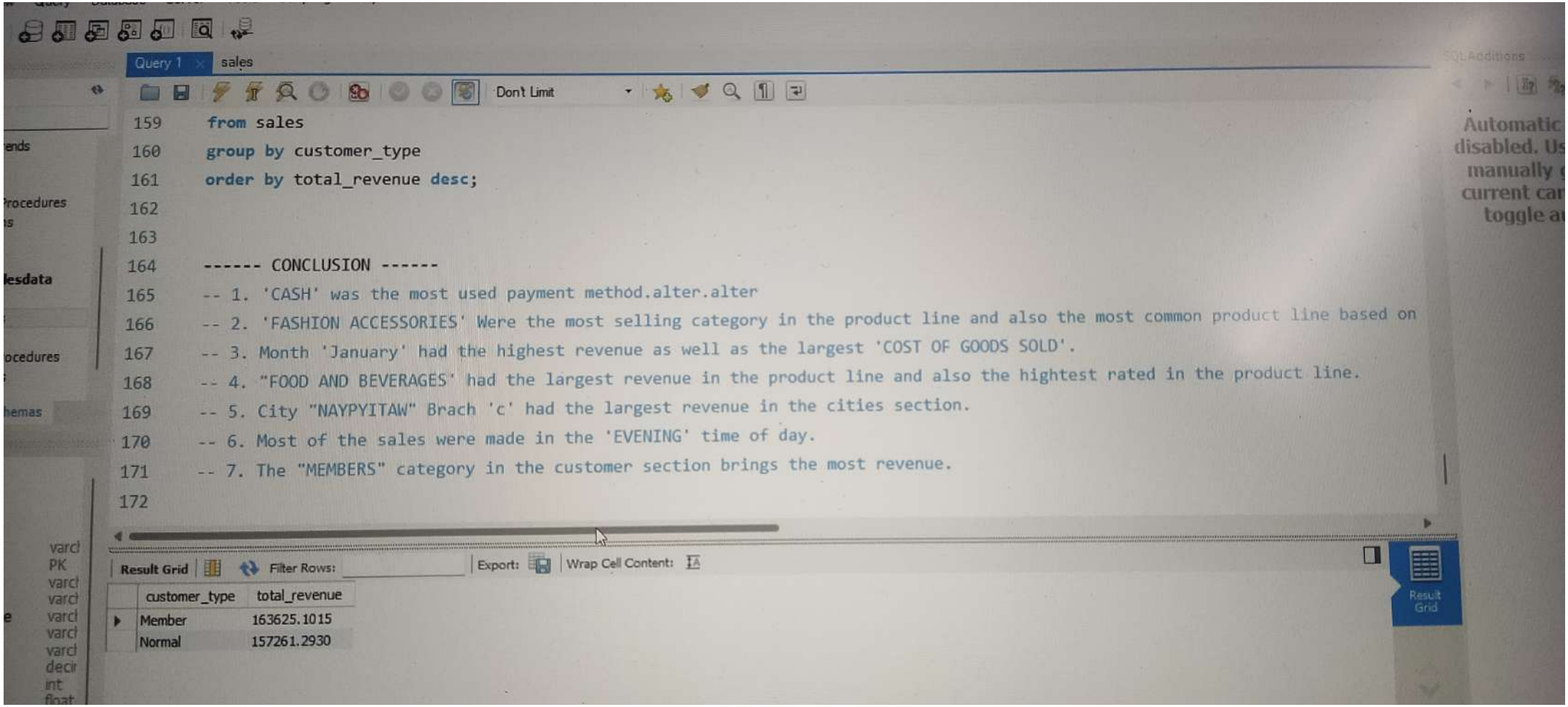
```
134     from sales
135     group by gender, product_line
136     order by total_count desc;
137
138     -- What is the average rating of each product line?
139     select
140     avg(rating) as avg_rating,product_line
141     from sales
142     group by product_line
143     order by avg_rating desc;
```

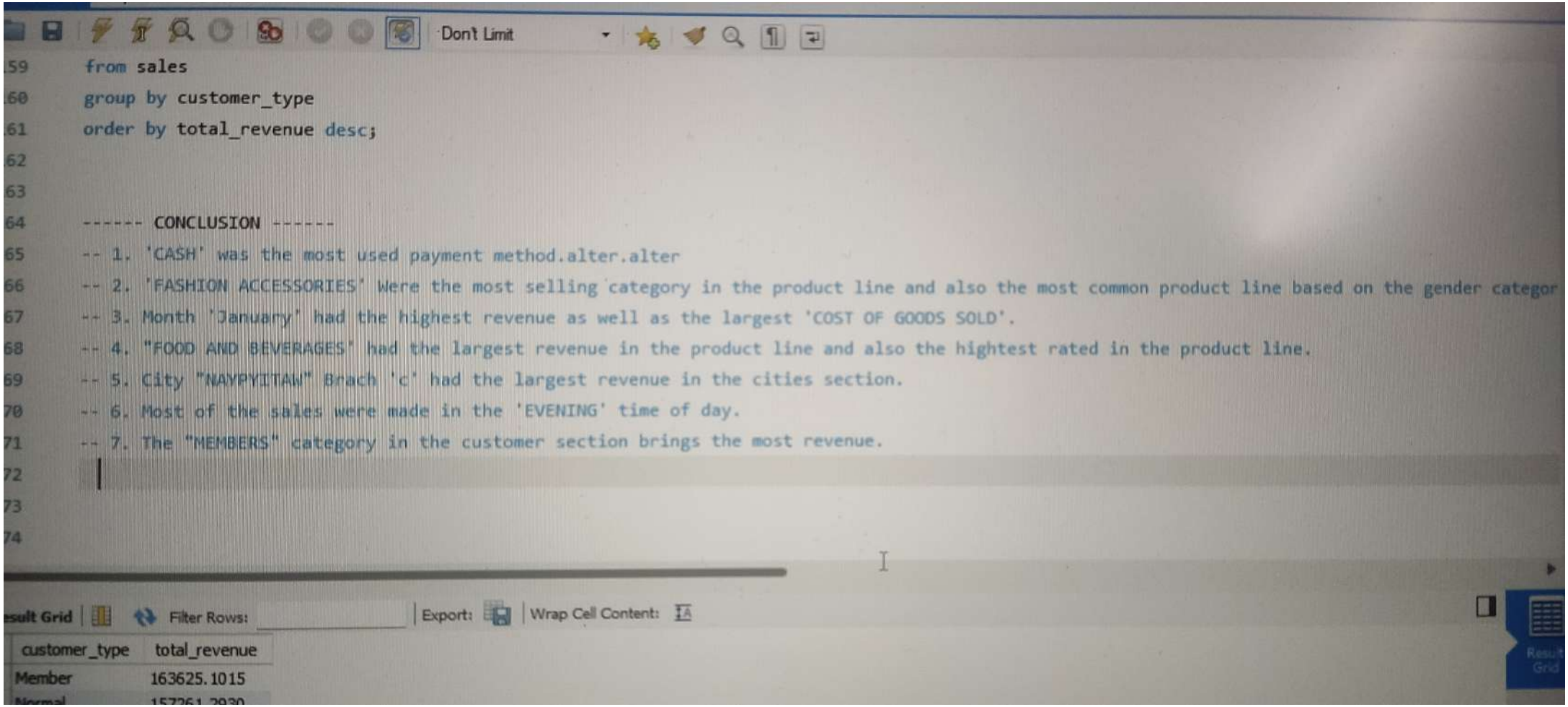
Result Grid | Filter Rows: | Export: | Wrap Cell Content:

avg_rating	product_line
7.11322	Food and beverages
7.02921	Fashion accessories
6.98344	Health and beauty
6.90651	Electronic accessories
6.85951	Sports and travel
6.83750	Home and lifestyle


Don't Limit
145
146 ---------- SALES ----------
147
148 -- Number of sales made in each time of the day per weekday
149 select time_of_day,
150 count(*) as total_sales
151 from sales
152 where day_name = "monday"
153 group by time_of_day
154 order by total_sales desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
time_of_day total_sales
evening 56
afternoon 48
morning 20
Schemas
sales


Functions
student
sys
walmartsalesdata
Tables
sales
Views
Stored Procedures
Functions
world
Administration
Schemas
Information
Table: sales
Columns:
invoice_id varch PK
branch varch
city varch
customer_type varch
gender varch
product_line varch
unit_price decir
quantity int
VAT float
total decir
date date
time time
payment_method varch
cogs decir
gross_margin_pct float
150 count(*) as total_sales
151 from sales
152 where day_name = "monday"
153 group by time_of_day
154 order by total_sales desc;
155
156 -- Which of the customer type brings the most revenue?
157 select customer_type,
158 sum(total) as total_revenue
159 from sales
160 group by customer_type
161 order by total_revenue desc;
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
customer_type total_revenue
Member 163625.1015
Normal 157261.2930
Result 30
Output
Action Output
Message


Query 1
sales
Don't Limit
159 from sales
160 group by customer_type
161 order by total_revenue desc;
162
163
164 ------ CONCLUSION ------
165 -- 1. 'CASH' was the most used payment method.alter.alter
166 -- 2. 'FASHION ACCESSORIES' Were the most selling category in the product line and also the most common product line based on
167 -- 3. Month 'January' had the highest revenue as well as the largest 'COST OF GOODS SOLD'.
168 -- 4. "FOOD AND BEVERAGES' had the largest revenue in the product line and also the hightest rated in the product line.
169 -- 5. City "NAYPYITAW" Brach 'c' had the largest revenue in the cities section.
170 -- 6. Most of the sales were made in the 'EVENING' time of day.
171 -- 7. The "MEMBERS" category in the customer section brings the most revenue.
172
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
customer_type
total_revenue
Member
163625.1015
Normal
157261.2930
Result Grid


Don't Limit
59 from sales
60 group by customer_type
61 order by total_revenue desc;
62
63
64 ------ CONCLUSION ------
65 -- 1. 'CASH' was the most used payment method.alter.alter
66 -- 2. 'FASHION ACCESSORIES' Were the most selling category in the product line and also the most common product line based on the gender categor
67 -- 3. Month 'January' had the highest revenue as well as the largest 'COST OF GOODS SOLD'.
68 -- 4. "FOOD AND BEVERAGES" had the largest revenue in the product line and also the hightest rated in the product line.
69 -- 5. City "NAYPYITAW" Brach 'c' had the largest revenue in the cities section.
70 -- 6. Most of the sales were made in the 'EVENING' time of day.
71 -- 7. The "MEMBERS" category in the customer section brings the most revenue.
72
73
74
Filter Rows:
Export:
Wrap Cell Content:
customer_type
total_revenue
Member
163625.1015