

Read Only

```
2
       #step 1 creating tables and adding neccessary constraints
 3
 4
 5 •
       CREATE DATABASE MAVEN MARKET;
 6
 7 .
       use maven market;
 8
       CREATE TABLE customer (
 9 •
10
           customer id int primary key,
11
           customer address varchar(200),
12
           customer city varchar(200),
13
           customer_state_province varchar(200),
14
           birthdate date,
           marital status varchar(150),
15
16
           yearly income varchar(200),
17
           gender varchar(2),
18
           member card varchar(200)
19
           );
20
21
22 ● ⊖ CREATE TABLE regions (
       region_id int primary key,
23
       sales_district varchar(200),
24
       sales region varchar(200)
25
26
       );
```

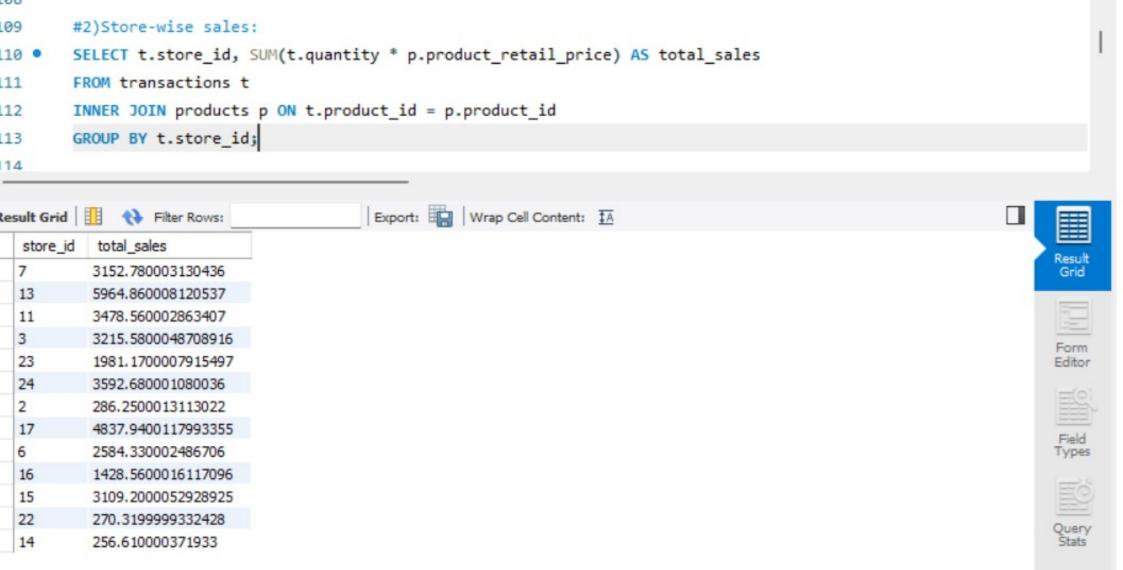
#Maven Markets

1

```
28 • ⊖ CREATE TABLE products (
        product id int primary key,
29
        product brand varchar(200),
30
        product name varchar(200),
31
        product retail price float,
32
        product cost float,
33
        product_weight float,
34
        recyclable varchar(20),
35
        low fat varchar(20)
36
37
        );
38
        CREATE TABLE store (
39 ● ⊖
       store id int primary key,
40
       region id int, foreign key(region id)REFERENCES regions(region id),
41
       store type varchar(255),
42
       store name varchar(255),
43
       store street address varchar(255),
44
       store_city_varchar(255),
45
       store_state varchar(255)
46
47
       );
48
        CREATE TABLE returns (
49 ● ⊖
        return date date,
50
        product id int,
51
52
        store_id int, foreign key(store_id)references store(store_id),
53
        quantity int
        );
54
```

```
#1)Average cost per product:
)5
      SELECT AVG(product_cost) AS average_cost_per_product
6 •
      FROM products;
7
9
      #2)Store-wise sales:
0
      SELECT t.store_id, SUM(t.quantity * p.product_retail_price) AS total_sales
      FROM transactions t
1
      INNER JOIN products p ON t.product_id = p.product_id
2
      GROUP BY t.store_id;
sult Grid  Filter Rows:
                                         Export: Wrap Cell Content: IA
average_cost_per_product
0.8616738188612103
                                                                                                                        Editor
                                                                                                                        Field
Types
                                                                                                                        Query
Stats
```

Read Only



V

```
84 •
       set sql safe updates = 0;
85 •
       update mavenmarket_transactions set stock date = str_to_date(stock_date, '%d-%m-%Y');
86 •
       ALTER TABLE mavenmarket transactions modify stock date date;
87
88 •
       select year(return date) from maven market backup.mavenmarket returns;
89 •
       set sql safe updates = 0;
90 •
       update mavenmarket returns set return date = str to date(return date, '%d-%m-%Y');
91 •
       ALTER TABLE mavenmarket returns modify return date date;
92
       #Step 2 Inserting Data into maven market database
93
94 •
       INSERT INTO maven market.customer select * from maven market backup.mavenmarket customers;
95 •
       INSERT INTO maven market.products select * from maven market backup.mavenmarket products;
96 •
       INSERT INTO maven market.regions select * from maven market backup.mavenmarket regions;
97 •
       INSERT INTO maven market.store select * from maven market backup.mavenmarket stores;
98 •
       INSERT INTO maven market.returns select * from maven market backup.mavenmarket returns;
99 •
       INSERT INTO maven market.transactions select * from maven market backup.mavenmarket transactions;
00
01 •
       use maven market;
02
```

select year(stock date) from maven market backup.mavenmarket transactions;

82

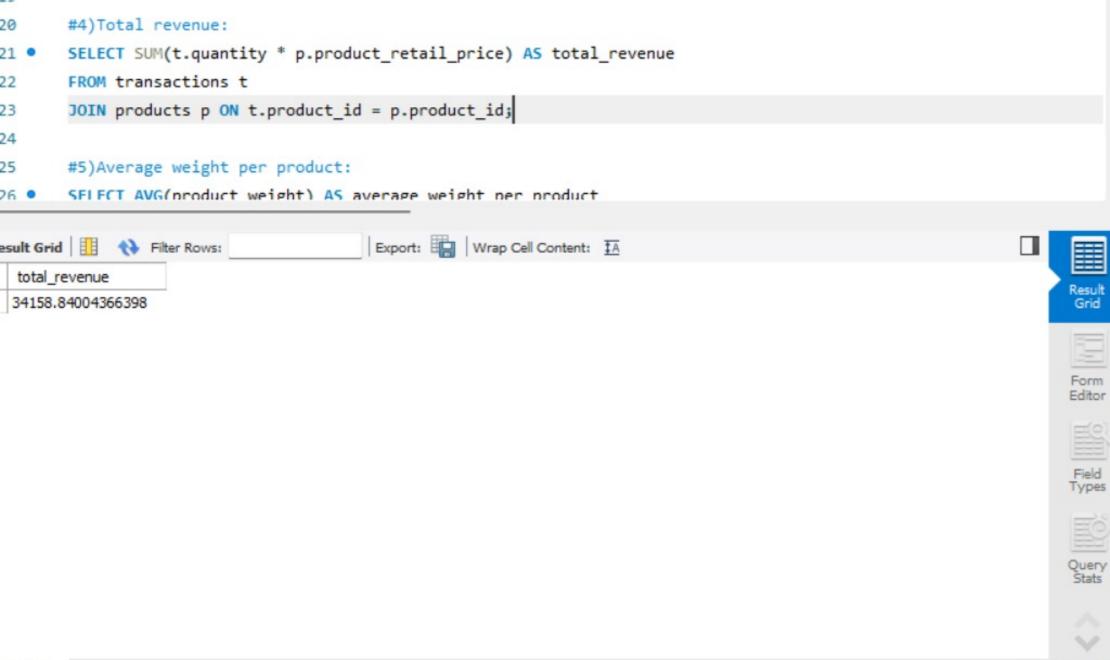
83 •

```
stock date date,
59
       product id int, foreign key (product id) references products (product id),
60
61
       customer id int, foreign key (customer id) references customer(customer id),
       store id int, foreign key (store id) references store(store id),
62
       quantity int
63
64
       );
65
       #Creating Backup database and importing data
66
67
68 •
       create database MAVEN MARKET BACKUP;
69
       # Transformation
70
71 •
       select year(birthdate) from maven market backup.mavenmarket customers;
       set sql safe updates = 0;
72 •
73 •
       update mavenmarket customers set birthdate = str to date(birthdate, '%d-%m-%Y');
74 •
       ALTER TABLE mavenmarket customers modify birthdate date;
75
76
77 •
       select year(transaction date) from maven market backup.mavenmarket transactions;
78 •
       set sql safe updates = 0;
79 •
       update mavenmarket transactions set transaction date = str to date(transaction date, '%d-%m-%Y');
80 •
       ALTER TABLE mavenmarket transactions modify transaction date date;
```

57 • ⊖ CREATE TABLE transactions(

transaction date date,

58



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```
42
        #8)Revenue by customer income:
43
44 •
        SELECT c.yearly income, SUM(t.quantity * p.product_retail_price) AS total_revenue
        FROM transactions t
45
        RIGHT JOIN products p ON t.product id = p.product id
46
        RIGHT JOIN customer c ON t.customer_id = c.customer_id
47
        GROUP BY c.yearly income;
48
49
                                             Export: Wrap Cell Content: TA
esult Grid
              Filter Rows:
 yearly_income
                total_revenue
                                                                                                                                 Result
Grid
               11452.980021059513
 $30K - $50K
 $70K - $90K
               3962.760001063347
 $50K - $70K
               6085.179994285107
 $10K - $30K
               6941.360012888908
                                                                                                                                 Form
                                                                                                                                 Editor
 $90K - $110K
               1644.0500051379204
 $110K - $130K
               1507.2500020861626
                                                                                                                                 Field
Types
 $130K - $150K
               1903.5200073122978
 $150K +
               661.7399998307228
```

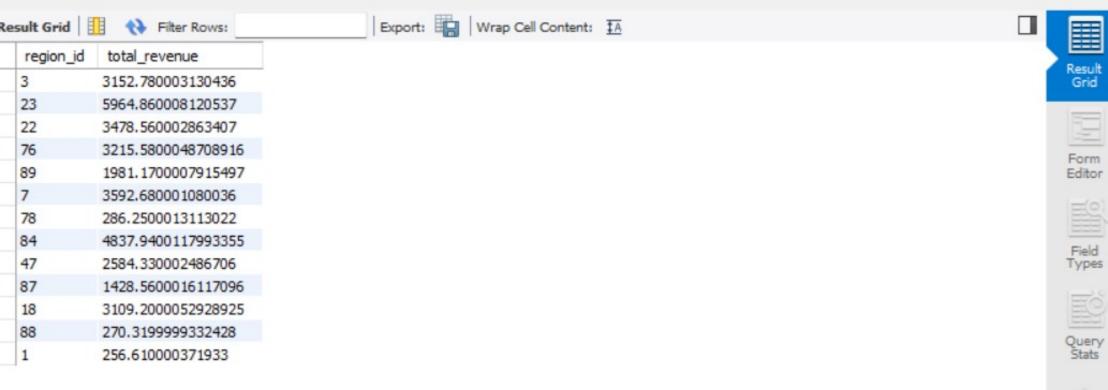
V

Query

```
150
        #9)Total number of transactions:
        SELECT COUNT(product id) AS total transactions
51 •
        FROM transactions;
52
53
        #10)Revenue by customer membership:
54
        SELECT c.member card, SUM(t.quantity * p.product retail price) AS total revenue
55 •
        FROM transactions t
.56
57
        JOIN customer c ON t.customer id = c.customer id
        JOIN products p ON t.product id = p.product id
58
        GROUP BY c.member card;
59
        #inner ioin
60
Result Grid
                                           Export: Wrap Cell Content: TA
             Filter Rows:
  member_card
              total_revenue
 Bronze
              19315.920019328594
 Silver
              3017.100003838539
 Normal
              7668.47001427412
 Golden
              4157.350006222725
                                                                                                                          Form
Editor
```

esult 8 ×

```
125
       #5) Average weight per product:
126 •
       SELECT AVG(product_weight) AS average_weight_per_product
       FROM products;
127
128
129
       #6)Total revenue by region:
130 •
       SELECT s.region_id, SUM(t.quantity * p.product_retail_price) AS total_revenue
       FROM transactions t
131
       JOIN products p ON t.product id = p.product id
132
       JOIN store s ON t.store id = s.store id
133
       GROUP BY s.region id;
134
135
```



esult 6 x

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