

```
1 -- SQL Minor Project:  
2 -- Bike Store Sales And Inventory Analysis  
3  
4 -- Project Overview :-  
5 -- This project focuses strictly on relational logic using JOINs and aggregation functions.  
6 -- Subqueries and CTEs are intentionally excluded to strengthen core SQL fundamentals.  
7  
8 -- Problem Statement:  
9 -- Analyze store performance and inventory levels for a bicycle retail chain.  
10
```

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

```
--  
11 -- Create the Database  
12 • CREATE DATABASE BikeStoreProject;  
13
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:08:53	CREATE DATABASE BikeStoreProject	1 row(s) affected	0.047 sec

Context Help Snippets

```
--  
16 -- Use the database  
17 • USE BikeStoreProject;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:08:53	CREATE DATABASE BikeStoreProject	1 row(s) affected	0.047 sec
2	18:10:24	USE BikeStoreProject	0 row(s) affected	0.000 sec

Context Help Snippets

```
--  
20 -- Create the table brands  
21 • CREATE TABLE brands(  
22     brand_id INT PRIMARY KEY,  
23     brand_name VARCHAR(50) NOT NULL);  
24
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:08:53	CREATE DATABASE BikeStoreProject	1 row(s) affected	0.047 sec
2	18:10:24	USE BikeStoreProject	0 row(s) affected	0.000 sec
3	18:15:11	CREATE TABLE brands(brand_id INT PRIMARY KEY, brand_name VARCHAR(50) NOT NULL)	0 row(s) affected	0.093 sec

Context Help Snippets

```
--  
26 -- Create the table categories  
27 • CREATE TABLE categories(  
28     category_id INT PRIMARY KEY,  
29     category_name VARCHAR(50)  
30 );  
31
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
3	18:15:11	CREATE TABLE brands(brand_id INT PRIMARY KEY, brand_name VARCHAR(50) NOT NULL)	0 row(s) affected	0.093 sec
4	18:20:19	CREATE TABLE categories(category_id INT PRIMARY KEY, category_name VARCHAR(50))	0 row(s) affected	0.016 sec

Context Help Snippets

```
32
33  -- Create the table customers
34 • CREATE TABLE customers(
35    customer_id INT PRIMARY KEY,
36    first_name VARCHAR(50),
37    last_name VARCHAR(50),
38    phone BIGINT,
39    email VARCHAR(50),
40    street VARCHAR(50),
41    city VARCHAR(50),
42    state VARCHAR(50),
43    zip_code BIGINT
44  );
45
```

Output:

#	Time	Action	Message	Duration / Fetch
4	18:20:19	CREATE TABLE categories(category_id INT PRIMARY KEY, category_name VARCHAR(50))	0 row(s) affected	0.016 sec
5	18:28:01	CREATE TABLE customers(customer_id INT PRIMARY KEY, first_name VARCHAR(50), last_name VARCHAR(50)...) 0 row(s) affected		0.031 sec

```
46
47  -- Create the table order_items
48 • CREATE TABLE order_items(
49    order_id INT PRIMARY KEY,
50    item_id INT,
51    product_id INT,
52    quantity INT,
53    list_price FLOAT,
54    discount FLOAT
55  );
56
```

Output:

#	Time	Action	Message	Duration / Fetch
5	18:28:01	CREATE TABLE customers(customer_id INT PRIMARY KEY, first_name VARCHAR(50), last_name VARCHAR(50)...) 0 row(s) affected		0.031 sec
6	18:32:25	CREATE TABLE order_items(order_id INT PRIMARY KEY, item_id INT, product_id INT, quantity INT, list_price FL...) 0 row(s) affected		0.031 sec

```
57
58  -- Create the table orders
59 • CREATE TABLE orders(
60    order_id INT PRIMARY KEY,
61    customer_id INT,
62    order_status INT,
63    order_date DATE,
64    required_date DATE,
65    shipped_date DATE,
66    store_id INT,
67    staff_id INT
68  );
```

Output:

#	Time	Action	Message	Duration / Fetch
6	18:32:25	CREATE TABLE order_items(order_id INT PRIMARY KEY, item_id INT, product_id INT, quantity INT, list_price FL...) 0 row(s) affected		0.031 sec
7	18:36:47	CREATE TABLE orders(order_id INT PRIMARY KEY, customer_id INT, order_status INT, order_date DATE, requir...) 0 row(s) affected		0.046 sec

```
71
72  -- Create the table products
73 • CREATE TABLE products(
74    product_id INT PRIMARY KEY,
75    product_name VARCHAR(50),
76    brand_id INT,
77    category_id INT,
78    model_year INT,
79    list_price FLOAT
80  );
```

Output:

#	Time	Action	Message	Duration / Fetch
7	18:36:47	CREATE TABLE orders(order_id INT PRIMARY KEY, customer_id INT, order_status INT, order_date DATE, requir...) 0 row(s) affected		0.046 sec
8	18:40:03	CREATE TABLE products(product_id INT PRIMARY KEY, product_name VARCHAR(50), brand_id INT, category... 0 row(s) affected		0.047 sec

```

81
82    -- Create the table staffs
83 • CREATE TABLE staffs(
84     staff_id INT PRIMARY KEY,
85     first_name VARCHAR(50),
86     last_name VARCHAR(50),
87     email VARCHAR(50),
88     phone BIGINT,
89     active INT,
90     store_id INT,
91     manager_id INT
92 )|
93

```

Output:

#	Time	Action	Message	Duration / Fetch
8	18:40:03	CREATE TABLE products(product_id INT PRIMARY KEY,product_name VARCHAR(50),brand_id INT,category_id INT,description TEXT,unit_cost DECIMAL(10,2),units_in_stock INT,units_on_order INT,order_quantity INT)	0 row(s) affected	0.047 sec
9	18:44:24	CREATE TABLE staffs(staff_id INT PRIMARY KEY,first_name VARCHAR(50),last_name VARCHAR(50),email VARCHAR(50),phone BIGINT,active INT,store_id INT,manager_id INT)	0 row(s) affected	0.015 sec

```

95
96 • CREATE TABLE stocks(
97     store_id INT PRIMARY KEY,
98     product_id INT,
99     quantity INT
100 )|

```

Output:

#	Time	Action	Message	Duration / Fetch
9	18:44:24	CREATE TABLE staffs(staff_id INT PRIMARY KEY,first_name VARCHAR(50),last_name VARCHAR(50),email VARCHAR(50),phone BIGINT,active INT,store_id INT,manager_id INT)	0 row(s) affected	0.015 sec
10	18:46:43	CREATE TABLE stocks(store_id INT PRIMARY KEY,product_id INT,quantity INT)	0 row(s) affected	0.032 sec

```

103
104 • CREATE TABLE stores(
105     store_id INT PRIMARY KEY,
106     store_name VARCHAR(50),
107     phone BIGINT,
108     email VARCHAR(50),
109     street VARCHAR(50),
110     city VARCHAR(50),
111     state VARCHAR(50),
112     zip_code BIGINT
113 )|
114
115

```

Output:

#	Time	Action	Message	Duration / Fetch
10	18:46:43	CREATE TABLE stocks(store_id INT PRIMARY KEY,product_id INT,quantity INT)	0 row(s) affected	0.032 sec
11	18:49:55	CREATE TABLE stores(store_id INT PRIMARY KEY,store_name VARCHAR(50),phone BIGINT,email VARCHAR(50),street VARCHAR(50),city VARCHAR(50),state VARCHAR(50),zip_code BIGINT)	0 row(s) affected	0.047 sec

```

115
116    -- show all the created tables
117 • SHOW TABLES;|

```

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

Tables_in_bikeshopreproject
brands
categories
customers
order_items
orders
products
staffs
stocks
stores

Result 1 | Read Only | Context Help | Snippets

Output:

#	Time	Action	Message	Duration / Fetch
11	22:43:55	CREATE TABLE stores(store_id INT PRIMARY KEY,store_name VARCHAR(50),phone BIGINT,email VARCHAR(50),street VARCHAR(50),city VARCHAR(50),state VARCHAR(50),zip_code BIGINT)	0 row(s) affected	0.047 sec
12	22:43:59	SHOW TABLES	9 row(s) returned	0.078 sec / 0.000 sec

```

120  -- insert the values into brands table
121 • INSERT INTO brands VALUES
122   (1,"Electra"),
123   (2,"Haro"),
124   (3,"Heller"),
125   (4,"Pure Cycles"),
126   (5,"Ritchey"),
127   (6,"Strider"),
128   (7,"Sun Bicycles"),
129   (8,"Surly"),
130   (9,"Trek");

```

Output

#	Time	Action	Message	Duration / Fetch
12	22:43:39	SHOW TABLES	9 row(s) returned	0.078 sec / 0.000 sec
13	22:51:30	INSERT INTO brands VALUES (1,"Electra"), (2,"Haro"), (3,"Heller"), (4,"Pure Cycles"), (5,"Ritchey"), (6,"Strider"), (7,"Sun Bicycles"), (8,"Surly"), (9,"Trek");	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0	0.015 sec

```

133  -- insert the values into categories table
134 • INSERT INTO categories VALUES
135   (1,"Children Bicycles"),
136   (2,"Comfort Bicycles"),
137   (3,"Cruisers Bicycles"),
138   (4,"Cyclocross Bicycles"),
139   (5,"Electric Bikes"),
140   (6,"Mountain Bikes"),
141   (7,"Road Bikes");

```

Output

#	Time	Action	Message	Duration / Fetch
13	22:51:30	INSERT INTO brands VALUES (1,"Electra"), (2,"Haro"), (3,"Heller"), (4,"Pure Cycles"), (5,"Ritchey"), (6,"Strider"), (7,"Sun Bicycles"), (8,"Surly"), (9,"Trek");	9 row(s) affected Records: 9 Duplicates: 0 Warnings: 0	0.015 sec
14	22:54:55	INSERT INTO categories VALUES (1,"Children Bicycles"), (2,"Comfort Bicycles"), (3,"Cruisers Bicycles"), (4,"Cyclocross Bicycles"), (5,"Electric Bikes"), (6,"Mountain Bikes"), (7,"Road Bikes");	7 row(s) affected Records: 7 Duplicates: 0 Warnings: 0	0.015 sec

```

145  -- insert the values into customers table
146 • INSERT INTO customers VALUES
147   (1,"Debra","Burks",NULL,"debra.burks@yahoo.com","9273 Thorne Ave.", "Orchard Park", "NY", 14127),
148   (2,"Kasha","Todd",NULL,"kasha.todd@yahoo.com", "910 Vine Street", "Campbell", "CA", 95008),
149   (3,"Tameka","Fisher",NULL,"tameka.fisher@aol.com", "7691 Honey Creek St.", "Redondo Beach", "CA", 90278),
150   (4,"Daryl","Spence",NULL,"daryl.spence@aol.com", "988 Pearl Lane", "Uniondale", "NY", 11553),
151   (5,"Charolette","Rice",9163816003,"charolette.rice@msn.com", "107 River Dr.", "Sacramento", "CA", 95820),
152   (6,"Lyndsey","Bean",NULL,"lyndsey.bean@hotmail.com", "769 West Road", "Fairport", "NY", 14450),
153   (7,"Latasha","Hay",7169863359,"latasha.hay@hotmail.com", "7014 Manor Station Rd.", "Buffalo", "NY", 14215),
154   (8,"Jacqueline","Duncan",NULL,"jacqueline.duncan@yahoo.com", "15 Brown St.", "Jackson Heights", "NY", 11372),
155   (9,"Genoveva","Baldwin",NULL,"genoveva.baldwin@msn.com", "8550 Spruce Drive", "Port Washington", "NY", 11050),
156   (10,"Pamelia","Newman",NULL,"pamelia.newman@gmail.com", "476 Chestnut Ave.", "Monroe", "NY", 10950),
157   (11,"Deshawn","Mendoza",NULL,"deshawn.mendoza@yahoo.com", "8798 Cobblestone Street", "Bronx", "NY", 10952),
158   (12,"Robby","Sykes",5165837761,"robby.sykes@hotmail.com", "486 Rock Maple Street", "Hempstead", "NY", 11550),
159   (13,"Lashawn","Ortiz",NULL,"lashawn.ortiz@msn.com", "27 Washington Rd.", "Longview", "TX", 75684),
160   (14,"Garry","Espinosa",NULL,"garry.espinosa@hotmail.com", "7858 Rockaway Court", "Forney", "TX", 75126),
161   (15,"Linnie","Branch",NULL,"linnie.branch@gmail.com", "314 South Columbia Ave.", "Plattsburgh", "NY", 12901),
162   (16,"Emmitt","Sanchez",212945823,"emmitt.sanchez@hotmail.com", "461 Squaw Creek Road", "New York", "NY", 10002),
163   (17,"Caren","Stephens",NULL,"caren.stephens@sn.com", "911 Brook St.", "Scarsdale", "NY", 10583),
164   (18,"Georgetta","Hardin",NULL,"georgetta.hardin@aol.com", "474 Chapel Dr.", "Canandaigua", "NY", 14424),
165   (19,"Lizzette","Stein",NULL,"lizzette.stein@yahoo.com", "19 Green Hill Lane", "Orchard Park", "NY", 14127),
166   (20,"Aleta","Shepard",NULL,"aleta.shepard@aol.com", "684 Howard St.", "Sugar Land", "TX", 77478);

```

Output

#	Time	Action	Message	Duration / Fetch
16	23:23:58	INSERT INTO customers VALUES (1,"Debra","Burks",NULL,"debra.burks@yahoo.com","9273 Thorne Ave.", "Orchard Park", "NY", 14127), (2,"Kasha","Todd",NULL,"kasha.todd@yahoo.com", "910 Vine Street", "Campbell", "CA", 95008), (3,"Tameka","Fisher",NULL,"tameka.fisher@aol.com", "7691 Honey Creek St.", "Redondo Beach", "CA", 90278), (4,"Daryl","Spence",NULL,"daryl.spence@aol.com", "988 Pearl Lane", "Uniondale", "NY", 11553), (5,"Charolette","Rice",9163816003,"charolette.rice@msn.com", "107 River Dr.", "Sacramento", "CA", 95820), (6,"Lyndsey","Bean",NULL,"lyndsey.bean@hotmail.com", "769 West Road", "Fairport", "NY", 14450), (7,"Latasha","Hay",7169863359,"latasha.hay@hotmail.com", "7014 Manor Station Rd.", "Buffalo", "NY", 14215), (8,"Jacqueline","Duncan",NULL,"jacqueline.duncan@yahoo.com", "15 Brown St.", "Jackson Heights", "NY", 11372), (9,"Genoveva","Baldwin",NULL,"genoveva.baldwin@msn.com", "8550 Spruce Drive", "Port Washington", "NY", 11050), (10,"Pamelia","Newman",NULL,"pamelia.newman@gmail.com", "476 Chestnut Ave.", "Monroe", "NY", 10950), (11,"Deshawn","Mendoza",NULL,"deshawn.mendoza@yahoo.com", "8798 Cobblestone Street", "Bronx", "NY", 10952), (12,"Robby","Sykes",5165837761,"robby.sykes@hotmail.com", "486 Rock Maple Street", "Hempstead", "NY", 11550), (13,"Lashawn","Ortiz",NULL,"lashawn.ortiz@msn.com", "27 Washington Rd.", "Longview", "TX", 75684), (14,"Garry","Espinosa",NULL,"garry.espinosa@hotmail.com", "7858 Rockaway Court", "Forney", "TX", 75126), (15,"Linnie","Branch",NULL,"linnie.branch@gmail.com", "314 South Columbia Ave.", "Plattsburgh", "NY", 12901), (16,"Emmitt","Sanchez",212945823,"emmitt.sanchez@hotmail.com", "461 Squaw Creek Road", "New York", "NY", 10002), (17,"Caren","Stephens",NULL,"caren.stephens@sn.com", "911 Brook St.", "Scarsdale", "NY", 10583), (18,"Georgetta","Hardin",NULL,"georgetta.hardin@aol.com", "474 Chapel Dr.", "Canandaigua", "NY", 14424), (19,"Lizzette","Stein",NULL,"lizzette.stein@yahoo.com", "19 Green Hill Lane", "Orchard Park", "NY", 14127), (20,"Aleta","Shepard",NULL,"aleta.shepard@aol.com", "684 Howard St.", "Sugar Land", "TX", 77478);	20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0	0.032 sec

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

```

168      -- insert the values into order_items table
169 •  INSERT INTO order_items VALUES
170      (1,1,20,1,599.99,0.2),
171      (1,2,8,2,1799.99,0.07),
172      (1,3,10,2,1549,0.05),
173      (1,4,16,2,599.99,0.05),
174      (1,5,4,1,2899.99,0.2),
175      (2,1,20,1,599.99,0.07),
176      (2,2,16,2,599.99,0.05),
177      (3,1,3,1,999.99,0.05),
178      (3,2,20,1,599.99,0.05),
179      (4,1,2,2,749.99,0.1),
180      (5,1,10,2,1549,0.05),
181      (5,2,17,1,429,0.07),
182      (5,3,26,1,599.99,0.07),
183      (6,1,18,1,449,0.07),
184      (6,2,12,2,549.99,0.05),
185      (6,3,20,1,599.99,0.1),
186      (6,4,3,2,999.99,0.07),
187      (6,5,9,2,2999.99,0.07),
188      (7,1,15,1,529.99,0.07);

```

190
191 • ALTER TABLE order_items DROP PRIMARY KEY;
192
193
194 • SELECT * FROM order_items;
195

current caret position or to toggle automatic help.

order_id	item_id	product_id	quantity	list_price	discount
1	2	8	2	1799.99	0.07
1	3	10	2	1549	0.05
1	4	16	2	599.99	0.05
1	5	4	1	2899.99	0.2
2	1	20	1	599.99	0.07
2	2	16	2	599.99	0.05
3	1	3	1	999.99	0.05
3	2	20	1	599.99	0.05
4	1	2	2	749.99	0.1
5	1	10	2	1549	0.05
5	2	17	1	429	0.07
5	3	26	1	599.99	0.07
6	1	18	1	449	0.07
6	2	12	2	549.99	0.05
6	3	20	1	599.99	0.1

order_items 7 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
25	23:44:04	INSERT INTO order_items VALUES (1,1,20,1,599.99,0.2), (1,2,8,2,1799.99,0.07), (1,3,10,2,1549,0.05), (1,4,1,2899.99,0.2), (2,1,20,1,599.99,0.07), (2,2,16,2,599.99,0.05), (3,1,3,1,999.99,0.05), (3,2,20,1,599.99,0.05), (4,1,2,2,749.99,0.1), (5,1,10,2,1549,0.05), (5,2,17,1,429,0.07), (5,3,26,1,599.99,0.07), (6,1,18,1,449,0.07), (6,2,12,2,549.99,0.05), (6,3,20,1,599.99,0.1)	19 row(s) affected Records: 19 Duplicates: 0 Warnings: 0	0.016 sec
26	23:44:58	SELECT * FROM order_items LIMIT 0, 1000	19 row(s) returned	0.031 sec / 0.000 sec

```

197 -- insert the values into orders table
198 • INSERT INTO orders VALUES
199 (1,259,4,"2016-01-01","2016-01-03","2016-01-03",1,2),
200 (2,1212,4,"2016-01-01","2016-01-04","2016-01-03",2,6),
201 (3,523,4,"2016-01-02","2016-01-05","2016-01-03",2,7),
202 (4,175,4,"2016-01-03","2016-01-04","2016-01-05",1,3),
203 (5,1324,4,"2016-01-03","2016-01-06","2016-01-06",2,6),
204 (6,94,4,"2016-01-04","2016-01-07","2016-01-05",2,6),
205 (7,324,4,"2016-01-04","2016-01-07","2016-01-05",2,6),
206 (8,1204,4,"2016-01-04","2016-01-05","2016-01-05",2,7),
207 (9,60,4,"2016-01-05","2016-01-08","2016-01-08",1,2),
208 (10,442,4,"2016-01-05","2016-01-06","2016-01-06",2,6),
209 (11,1326,4,"2016-01-05","2016-01-08","2016-01-07",2,7),
210 (12,91,4,"2016-01-06","2016-01-08","2016-01-09",1,2),
211 (13,873,4,"2016-01-08","2016-01-11","2016-01-11",2,6),
212 (14,258,4,"2016-01-09","2016-01-11","2016-01-12",1,3),
213 (15,450,4,"2016-01-09","2016-01-10","2016-01-12",2,7),
214 (16,552,4,"2016-01-12","2016-01-15","2016-01-15",1,3),
215 (17,1175,4,"2016-01-12","2016-01-14","2016-01-14",1,3),
216 (18,541,4,"2016-01-14","2016-01-17","2016-01-15",1,3),
217 (19,696,4,"2016-01-14","2016-01-17","2016-01-16",1,2),
218 (20,923,4,"2016-01-14","2016-01-16","2016-01-17",1,2);
219
```

```

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

Context Help Snippets

Output

| #  | Time     | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Message                                                                               | Duration / Fetch |
|----|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------|
| 27 | 23:56:09 | INSERT INTO orders VALUES (1,259,4,"2016-01-01","2016-01-03","2016-01-03",1,2), (2,1212,4,"2016-01-01","2016-01-04","2016-01-03",2,6), (3,523,4,"2016-01-02","2016-01-05","2016-01-03",2,7), (4,175,4,"2016-01-03","2016-01-04","2016-01-05",1,3), (5,1324,4,"2016-01-03","2016-01-06","2016-01-06",2,6), (6,94,4,"2016-01-04","2016-01-07","2016-01-05",2,6), (7,324,4,"2016-01-04","2016-01-07","2016-01-05",2,6), (8,1204,4,"2016-01-04","2016-01-05","2016-01-05",2,7), (9,60,4,"2016-01-05","2016-01-08","2016-01-08",1,2), (10,442,4,"2016-01-05","2016-01-06","2016-01-06",2,6), (11,1326,4,"2016-01-05","2016-01-08","2016-01-07",2,7), (12,91,4,"2016-01-06","2016-01-08","2016-01-09",1,2), (13,873,4,"2016-01-08","2016-01-11","2016-01-11",2,6), (14,258,4,"2016-01-09","2016-01-11","2016-01-12",1,3), (15,450,4,"2016-01-09","2016-01-10","2016-01-12",2,7), (16,552,4,"2016-01-12","2016-01-15","2016-01-15",1,3), (17,1175,4,"2016-01-12","2016-01-14","2016-01-14",1,3), (18,541,4,"2016-01-14","2016-01-17","2016-01-15",1,3), (19,696,4,"2016-01-14","2016-01-17","2016-01-16",1,2), (20,923,4,"2016-01-14","2016-01-16","2016-01-17",1,2); | Error Code: 1292. Incorrect date value: '01-01-2016' for column 'order_date' at row 1 | 0.000 sec        |
| 28 | 00:06:12 | INSERT INTO orders VALUES (1,259,4,"2016-01-01","2016-01-03","2016-01-03",1,2), (2,1212,4,"2016-01-01","2016-01-04","2016-01-03",2,6), (3,523,4,"2016-01-02","2016-01-05","2016-01-03",2,7), (4,175,4,"2016-01-03","2016-01-04","2016-01-05",1,3), (5,1324,4,"2016-01-03","2016-01-06","2016-01-06",2,6), (6,94,4,"2016-01-04","2016-01-07","2016-01-05",2,6), (7,324,4,"2016-01-04","2016-01-07","2016-01-05",2,6), (8,1204,4,"2016-01-04","2016-01-05","2016-01-05",2,7), (9,60,4,"2016-01-05","2016-01-08","2016-01-08",1,2), (10,442,4,"2016-01-05","2016-01-06","2016-01-06",2,6), (11,1326,4,"2016-01-05","2016-01-08","2016-01-07",2,7), (12,91,4,"2016-01-06","2016-01-08","2016-01-09",1,2), (13,873,4,"2016-01-08","2016-01-11","2016-01-11",2,6), (14,258,4,"2016-01-09","2016-01-11","2016-01-12",1,3), (15,450,4,"2016-01-09","2016-01-10","2016-01-12",2,7), (16,552,4,"2016-01-12","2016-01-15","2016-01-15",1,3), (17,1175,4,"2016-01-12","2016-01-14","2016-01-14",1,3), (18,541,4,"2016-01-14","2016-01-17","2016-01-15",1,3), (19,696,4,"2016-01-14","2016-01-17","2016-01-16",1,2), (20,923,4,"2016-01-14","2016-01-16","2016-01-17",1,2); | 20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0                              | 0.016 sec        |

```

221 -- insert the values into products table
222 • INSERT INTO products VALUES
223 (1,"Trek 820 - 2016",9,6,2016,379.99),
224 (2,"Ritchey Timberwolf Frameset - 2016",5,6,2016,749.99),
225 (3,"Surly Wednesday Frameset - 2016",3,6,2016,999.99),
226 (4,"Trek Fuel EX 8 29 - 2016",9,6,2016,2899.99),
227 (5,"Heller Shagawat Frame - 2016",3,6,2016,1328.99),
228 (6,"Surly Ice Cream Truck Frameset - 2016",8,6,2016,469.99),
229 (7,"Trek Slash 8 27.5 - 2016",9,6,2016,3999.99),
230 (8,"Trek Remedy 29 Carbon Frameset - 2016",9,6,2016,1799.99),
231 (9,"Trek Conduit+ - 2016",9,5,2016,2999.99),
232 (10,"Surly Straggler - 2016",8,4,2016,1549),
233 (11,"Surly Straggler 650B - 2016",8,4,2016,1680.99),
234 (12,"Electra Townie Original 21D - 2016",1,3,2016,549.99),
235 (13,"Electra Cruiser 1 (24-Inch) - 2016",1,3,2016,269.99),
236 (14,"Electra Girl's Hawaii 1 (16-inch) - 2015/2016",1,3,2016,269.99),
237 (15,"Electra Moto 1 - 2016",1,3,2016,529.99),
238 (16,"Electra Townie Original 7D EQ - 2016",1,3,2016,599.99),
239 (17,"Pure Cycles Vina 8-Speed - 2016",4,3,2016,429),
240 (18,"Pure Cycles Western 3-Speed - Women's - 2015/2016",4,3,2016,449),
241 (19,"Pure Cycles William 3-Speed - 2016",4,3,2016,449),
242 (20,"Electra Townie Original 7D EQ - Women's - 2016",1,3,2016,599.99);
243
```

```

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

Context Help Snippets

Output

#	Time	Action	Message	Duration / Fetch
28	00:06:12	INSERT INTO orders VALUES (1,259,4,"2016-01-01","2016-01-03","2016-01-03",1,2), (2,1212,4,"2016-01-01","2016-01-04","2016-01-03",2,6), (3,523,4,"2016-01-02","2016-01-05","2016-01-03",2,7), (4,175,4,"2016-01-03","2016-01-04","2016-01-05",1,3), (5,1324,4,"2016-01-03","2016-01-06","2016-01-06",2,6), (6,94,4,"2016-01-04","2016-01-07","2016-01-05",2,6), (7,324,4,"2016-01-04","2016-01-07","2016-01-05",2,6), (8,1204,4,"2016-01-04","2016-01-05","2016-01-05",2,7), (9,60,4,"2016-01-05","2016-01-08","2016-01-08",1,2), (10,442,4,"2016-01-05","2016-01-06","2016-01-06",2,6), (11,1326,4,"2016-01-05","2016-01-08","2016-01-07",2,7), (12,91,4,"2016-01-06","2016-01-08","2016-01-09",1,2), (13,873,4,"2016-01-08","2016-01-11","2016-01-11",2,6), (14,258,4,"2016-01-09","2016-01-11","2016-01-12",1,3), (15,450,4,"2016-01-09","2016-01-10","2016-01-12",2,7), (16,552,4,"2016-01-12","2016-01-15","2016-01-15",1,3), (17,1175,4,"2016-01-12","2016-01-14","2016-01-14",1,3), (18,541,4,"2016-01-14","2016-01-17","2016-01-15",1,3), (19,696,4,"2016-01-14","2016-01-17","2016-01-16",1,2), (20,923,4,"2016-01-14","2016-01-16","2016-01-17",1,2);	20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0	0.016 sec
29	00:13:17	INSERT INTO products VALUES (1,"Trek 820 - 2016",9,6,2016,379.99), (2,"Ritchey Timberwolf Frameset - 2016",5,6,2016,749.99)	20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0	0.015 sec

```

245 -- insert the values into staffs table
246 • INSERT INTO staffs VALUES
247 (1,"Fabiola","Jackson","fabiola.jackson@bikes.shop","831555554",1,1,NULL),
248 (2,"Mireya","Copeland","mireya.copeland@bikes.shop","831555555",1,1,1),
249 (3,"Genna","Serrano","genna.serrano@bikes.shop","831555556",1,1,2),
250 (4,"Virgie","Wiggins","virgie.wiggins@bikes.shop","831555557",1,1,2),
251 (5,"Janette","David","janette.david@bikes.shop","516379444",1,2,1),
252 (6,"Marcelene","Boyer","marcelene.boyer@bikes.shop","516379445",1,2,5),
253 (7,"Venita","Daniel","venita.daniel@bikes.shop","516379446",1,2,5),
254 (8,"Kali","Vargas","kali.vargas@bikes.shop","972530555",1,3,1),
255 (9,"Layla","Terrell","layla.terrell@bikes.shop","972530556",1,3,7),
256 (10,"Bernardine","Houston","bernardine.houston@bikes.shop","972530557",1,3,7)
```

```

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

Context Help Snippets

Output

| #  | Time     | Action                                                                                                                      | Message                                                  | Duration / Fetch |
|----|----------|-----------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------|------------------|
| 29 | 00:13:17 | INSERT INTO products VALUES (1,"Trek 820 - 2016",9,6,2016,379.99), (2,"Ritchey Timberwolf Frameset - 2016",5,6,2016,749.99) | 20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0 | 0.015 sec        |
| 30 | 00:17:12 | INSERT INTO staffs VALUES (1,"Fabiola","Jackson","fabiola.jackson@bikes.shop","831555554",1,1,NULL)                         | 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 | 0.032 sec        |

```

258 • ALTER TABLE stocks DROP PRIMARY KEY;
--

Output
Action Output
Time Action Message Duration / Fetch
30 00:17:12 INSERT INTO staffs VALUES (1,"Fabiola","Jackson","fabiola.jackson@bikes.shop","8315555554",1,1,NULL...) 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 0.032 sec
31 00:24:45 ALTER TABLE stocks DROP PRIMARY KEY 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 0.062 sec

```

z61

```

262 -- insert the values into stocks table
263 • INSERT INTO stocks VALUES
264 (1,1,27),
265 (1,2,5),
266 (1,3,6),
267 (1,4,23),
268 (1,5,22),
269 (1,6,0),
270 (1,7,8),
271 (1,8,0),
272 (1,9,11),
273 (1,10,15),
274 (1,11,8),
275 (1,12,16),
276 (1,13,13),
277 (1,14,8),
278 (1,15,3),
279 (1,16,4),
280 (1,17,2),
281 (1,18,16),
282 (1,19,4),
283 (1,20,26)
284
--

```

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

```

Output
Action Output
Time Action Message Duration / Fetch
31 00:24:45 ALTER TABLE stocks DROP PRIMARY KEY 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 0.062 sec
32 00:25:36 INSERT INTO stocks VALUES (1,1.27),(1,2.5),(1,3.6),(1,4.23),(1,5.22),(1,6.0),(1,7.8),(1,8.0),(1,9.11),(1,1... 20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0 0.031 sec

```

```

286 -- insert the values into stores table
287 • INSERT INTO stores VALUES
288 (1,"Santa Cruz Bikes","8314764321","santacruz@bikes.shop","3700 Portola Drive","Santa Cruz","CA",95060),
289 (2,"Baldwin Bikes","5163798888","baldwin@bikes.shop","4200 Chestnut Lane","Baldwin","NY",11432),
290 (3,"Rowlett Bikes","9725305555","rowlett@bikes.shop","8000 Fairway Avenue","Rowlett","TX",75088)

```

```

Output
Action Output
Time Action Message Duration / Fetch
30 00:17:12 INSERT INTO staffs VALUES (1,"Fabiola","Jackson","fabiola.jackson@bikes.shop","8315555554",1,1,NULL...) 10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0 0.032 sec
31 00:24:45 ALTER TABLE stocks DROP PRIMARY KEY 0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0 0.062 sec
32 00:25:36 INSERT INTO stocks VALUES (1,1.27),(1,2.5),(1,3.6),(1,4.23),(1,5.22),(1,6.0),(1,7.8),(1,8.0),(1,9.11),(1,1... 20 row(s) affected Records: 20 Duplicates: 0 Warnings: 0 0.031 sec
33 00:29:25 INSERT INTO stores VALUES (1,"Santa Cruz Bikes","8314764321","santacruz@bikes.shop","3700 Portola ... 3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0 0.031 sec

```

```

291
292 -- to check the values from the table brands
293 • SELECT * FROM brands;

```

| Result Grid         | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Context Help | Snippets |
|---------------------|--------------|-------|----------------|--------------------|--------------|----------|
| brand_id brand_name |              |       |                |                    |              |          |
| 1 Electra           |              |       |                |                    |              |          |
| 2 Haro              |              |       |                |                    |              |          |
| 3 Heller            |              |       |                |                    |              |          |
| 4 Pure Cycles       |              |       |                |                    |              |          |
| 5 Ritchey           |              |       |                |                    |              |          |

```

brands 10 x
Output
Action Output
Time Action Message Duration / Fetch
33 00:29:25 INSERT INTO stores VALUES (1,"Santa Cruz Bikes","8314764321","santacruz@bikes.shop","3700 Portola ... 3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0 0.031 sec
34 00:31:59 SELECT * FROM brands LIMIT 0, 1000 9 row(s) returned 0.015 sec / 0.000 sec
35 00:32:33 SELECT * FROM categories LIMIT 0, 1000 7 row(s) returned 0.000 sec / 0.000 sec
36 00:36:32 SELECT * FROM brands LIMIT 0, 1000 9 row(s) returned 0.016 sec / 0.000 sec

```

```

296
297 -- to check the values from the table categories
298 • SELECT * FROM categories;
299

```

**Result Grid**

| category_id | category_name       |
|-------------|---------------------|
| 1           | Children Bicycles   |
| 2           | Comfort Bicycles    |
| 3           | Cruisers Bicycles   |
| 4           | Cyclocross Bicycles |
| 5           | Electric Bikes      |

**Action Output**

| #  | Time     | Action                                 | Message           | Duration / Fetch      |
|----|----------|----------------------------------------|-------------------|-----------------------|
| 36 | 00:36:32 | SELECT * FROM brands LIMIT 0, 1000     | 9 row(s) returned | 0.016 sec / 0.000 sec |
| 37 | 00:37:51 | SELECT * FROM categories LIMIT 0, 1000 | 7 row(s) returned | 0.016 sec / 0.000 sec |

```

300
301 -- to check the values from the table customers
302 • SELECT * FROM customers;
303

```

**Result Grid**

| customer_id | first_name | last_name | phone      | email                  | street               | city          | state | zip_code |
|-------------|------------|-----------|------------|------------------------|----------------------|---------------|-------|----------|
| 1           | Debra      | Burks     | (null)     | debra.burks@yahoo.com  | 9273 Thorne Ave.     | Orchard Park  | NY    | 14127    |
| 2           | Kasha      | Todd      | (null)     | kasha.todd@yahoo.com   | 910 Vine Street      | Campbell      | CA    | 95008    |
| 3           | Tameka     | Fisher    | (null)     | tameka.fisher@aol.com  | 769C Honey Creek St. | Redondo Beach | CA    | 90278    |
| 4           | Daryl      | Spence    | (null)     | daryl.spence@aol.com   | 988 Pearl Lane       | Uniondale     | NY    | 11553    |
| 5           | Charlotte  | Rice      | 9163816003 | charlotte.rice@msn.com | 107 River Dr.        | Sacramento    | CA    | 95820    |

**Action Output**

| #  | Time     | Action                                 | Message            | Duration / Fetch      |
|----|----------|----------------------------------------|--------------------|-----------------------|
| 37 | 00:37:51 | SELECT * FROM categories LIMIT 0, 1000 | 7 row(s) returned  | 0.016 sec / 0.000 sec |
| 38 | 00:40:10 | SELECT * FROM customers LIMIT 0, 1000  | 20 row(s) returned | 0.000 sec / 0.000 sec |

```

304
305 -- to check the values from the table order_items
306 • SELECT * FROM order_items;
307

```

**Result Grid**

| order_id | item_id | product_id | quantity | list_price | discount |
|----------|---------|------------|----------|------------|----------|
| 1        | 1       | 20         | 1        | 599.99     | 0.2      |
| 1        | 2       | 8          | 2        | 1799.99    | 0.07     |
| 1        | 3       | 10         | 2        | 1549       | 0.05     |
| 1        | 4       | 16         | 2        | 599.99     | 0.05     |
| 1        | 5       | 4          | 1        | 2899.99    | 0.2      |

**Action Output**

| #  | Time     | Action                                  | Message            | Duration / Fetch      |
|----|----------|-----------------------------------------|--------------------|-----------------------|
| 38 | 00:40:10 | SELECT * FROM customers LIMIT 0, 1000   | 20 row(s) returned | 0.000 sec / 0.000 sec |
| 39 | 00:42:00 | SELECT * FROM order_items LIMIT 0, 1000 | 19 row(s) returned | 0.000 sec / 0.000 sec |

```

308
309 -- to check the values from the table orders
310 • SELECT * FROM orders;
311

```

**Result Grid**

| order_id | customer_id | order_status | order_date | required_date | shipped_date | store_id | staff_id |
|----------|-------------|--------------|------------|---------------|--------------|----------|----------|
| 1        | 259         | 4            | 2016-01-01 | 2016-01-03    | 2016-01-03   | 1        | 2        |
| 2        | 1212        | 4            | 2016-01-01 | 2016-01-04    | 2016-01-03   | 2        | 6        |
| 3        | 523         | 4            | 2016-01-02 | 2016-01-05    | 2016-01-03   | 2        | 7        |
| 4        | 175         | 4            | 2016-01-03 | 2016-01-04    | 2016-01-05   | 1        | 3        |
| 5        | 1324        | 4            | 2016-01-03 | 2016-01-06    | 2016-01-06   | 2        | 6        |

**Action Output**

| #  | Time     | Action                                  | Message            | Duration / Fetch      |
|----|----------|-----------------------------------------|--------------------|-----------------------|
| 39 | 00:42:00 | SELECT * FROM order_items LIMIT 0, 1000 | 19 row(s) returned | 0.000 sec / 0.000 sec |
| 40 | 00:43:18 | SELECT * FROM orders LIMIT 0, 1000      | 20 row(s) returned | 0.000 sec / 0.000 sec |

```

312
313 -- to check the values from the table products
314 • SELECT * FROM products;
315

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid
product_id product_name brand_id category_id model_year list_price
1 Trek 820 - 2016 9 6 2016 379.99
2 Ritchey Timberwolf Frameset - 2016 5 6 2016 749.99
3 Surly Wednesday Frameset - 2016 8 6 2016 999.99
4 Trek Fuel EX 8 29 - 2016 9 6 2016 2899.99
5 Heller Shaganaw Frame - 2016 3 6 2016 1320.99

products 15 x
Output
Action Output
Time Action Message Duration / Fetch
40 00:43:18 SELECT * FROM orders LIMIT 0, 1000 20 row(s) returned 0.000 sec / 0.000 sec
41 00:44:30 SELECT * FROM products LIMIT 0, 1000 20 row(s) returned 0.015 sec / 0.000 sec

```

```

316
317 -- to check the values from the table staffs
318 • SELECT * FROM staffs;
319

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid
staff_id first_name last_name email phone active store_id manager_id
1 Fabiola Jackson fabiola.jackson@bikes.shop 831555554 1 1
2 Mireya Copeland mireya.copeland@bikes.shop 831555555 1 1 1
3 Genna Serrano genna.serrano@bikes.shop 831555556 1 1 2
4 Virge Wiggins virge.wiggins@bikes.shop 831555557 1 1 2
5 Jannette David janette.david@bikes.shop 5163794444 1 2 1

staffs 16 x
Output
Action Output
Time Action Message Duration / Fetch
41 00:44:30 SELECT * FROM products LIMIT 0, 1000 20 row(s) returned 0.015 sec / 0.000 sec
42 00:46:30 SELECT * FROM staffs LIMIT 0, 1000 10 row(s) returned 0.000 sec / 0.000 sec

```

```

320
321 -- to check the values from the table stocks
322 • SELECT * FROM stocks;
323
324

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Result Grid
store_id product_id quantity
1 16 4
1 17 2
1 18 16
1 19 4
1 20 26

stocks 17 x
Output
Action Output
Time Action Message Duration / Fetch
42 00:46:30 SELECT * FROM staffs LIMIT 0, 1000 10 row(s) returned 0.000 sec / 0.000 sec
43 00:47:53 SELECT * FROM stocks LIMIT 0, 1000 20 row(s) returned 0.000 sec / 0.000 sec

```

```

325 -- to check the values from the table stores
326 • SELECT * FROM stores;
327

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: | Result Grid
store_id store_name phone email street city state zip_code
1 Santa Cruz Bikes 8314764321 santacruz@bikes.shop 3700 Portola Drive Santa Cruz CA 95060
2 Baldwin Bikes 5163798888 baldwin@bikes.shop 4200 Chestnut Lane Baldwin NY 11432
3 Rowlett Bikes 9725305555 rowlett@bikes.shop 8000 Fairway Avenue Rowlett TX 75088

stores 18 x
Output
Action Output
Time Action Message Duration / Fetch
43 00:47:53 SELECT * FROM stocks LIMIT 0, 1000 20 row(s) returned 0.000 sec / 0.000 sec
44 00:49:12 SELECT * FROM stores LIMIT 0, 1000 3 row(s) returned 0.000 sec / 0.000 sec

```

```

240
329 -- Key SQL Tasks:
330
331 -- 1. Store Performance - Total revenue generated by each store.
332 -- Task 1: Store Revenue Analysis
333 • SELECT
334 s.store_name,
335 SUM(i.list_price * i.quantity * (1 - i.discount)) AS Total_Revenue
336 FROM stores s
337 JOIN orders o ON s.store_id = o.store_id
338 JOIN order_items i ON o.order_id = i.order_id
339 GROUP BY s.store_name
340 ORDER BY Total_Revenue DESC;
341
342
343

```

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

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

| store_name       | Total_Revenue      |
|------------------|--------------------|
| Baldwin Bikes    | 17053.408762703315 |
| Santa Cruz Bikes | 11581.028313137105 |

Result 19 x Read Only Context Help Snippets

Action Output

| #  | Time     | Action                                                                                                   | Message                                    | Duration / Fetch |
|----|----------|----------------------------------------------------------------------------------------------------------|--------------------------------------------|------------------|
| 45 | 01:00:16 | SELECT s.store_name, SUM(i.list_price * i.quantity * (1 - i.discount)) AS Total_Revenue FROM sales.st... | Error Code: 1049. Unknown database 'sales' | 0.000 sec        |
| 46 | 01:01:05 | SELECT s.store_name, SUM(i.list_price * i.quantity * (1 - i.discount)) AS Total_Revenue FROM stores ...  | 2 row(s) returned                          | 0.016 sec        |