

Online Book Store - SQL Analysis

I recently worked on an Online Book Store Database project where I performed SQL queries to analyze book inventory, customer details, and order transactions. This project covers basic and advanced SQL queries to extract valuable insights from the dataset.

Key Highlights:

Basic Queries:

-  Retrieve all books in the Fiction genre
 -  Find books published after 1950
 -  List customers from Canada
 -  Show orders placed in November 2023
 -  Retrieve the total stock of books
 -  Find the most expensive book
-  Advanced Queries:
-  Total books sold per genre
 -  Calculate total revenue from orders
 -  Most frequently ordered book
 -  Top 3 most expensive books in Fantasy
 -  Find the customer who spent the most
 -  Cities where customers spent over \$30
 -  Remaining stock after fulfilling all orders

Basic Queries:

- 1) Retrieve all books in the "Fiction" genre
- 2) Find books published after the year 1950
- 3) List all customers from the Canada
- 4) Show orders placed in November 2023
- 5) Retrieve the total stock of books available
- 6) Find the details of the most expensive book
- 7) Show all customers who ordered more than 1 quantity of a book
- 8) Retrieve all orders where the total amount exceeds \$20
- 9) List all genres available in the Books table
- 10) Find the book with the lowest stock
- 11) Calculate the total revenue generated from all orders

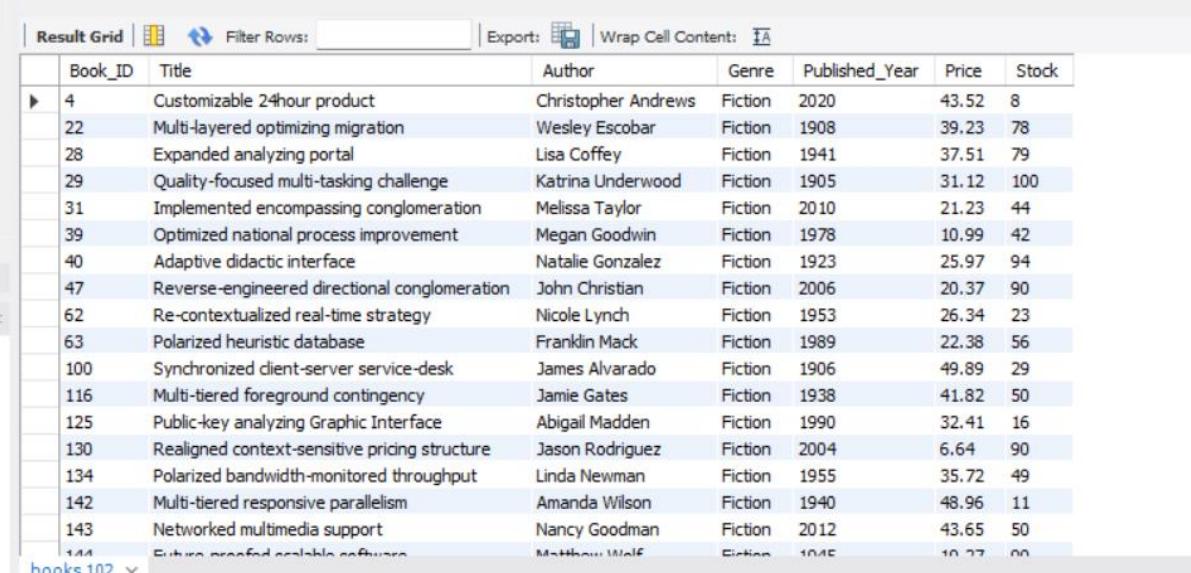
Advance Queries:

- 1) Retrieve the total number of books sold for each genre
- 2) Find the average price of books in the "Fantasy" genre
- 3) List customers who have placed at least 2 orders
- 4) Find the most frequently ordered book
- 5) Show the top 3 most expensive books of 'Fantasy' Genre
- 6) Retrieve the total quantity of books sold by each author
- 7) List the cities where customers who spent over \$30 are located
- 8) Find the customer who spent the most on orders
- 9) Calculate the stock remaining after fulfilling all orders

Solutions:

Basic Queries:

- 1) Retrieve all books in the "Fiction" genre

```
27
28 # 1) Retrieve all books in the "Fiction" genre?
29
30 select *
31   from books
32  where Genre = "Fiction"
```


	Book_ID	Title	Author	Genre	Published_Year	Price	Stock
▶	4	Customizable 24hour product	Christopher Andrews	Fiction	2020	43.52	8
	22	Multi-layered optimizing migration	Wesley Escobar	Fiction	1908	39.23	78
	28	Expanded analyzing portal	Lisa Coffey	Fiction	1941	37.51	79
	29	Quality-focused multi-tasking challenge	Katrina Underwood	Fiction	1905	31.12	100
	31	Implemented encompassing conglomeration	Melissa Taylor	Fiction	2010	21.23	44
	39	Optimized national process improvement	Megan Goodwin	Fiction	1978	10.99	42
	40	Adaptive didactic interface	Natalie Gonzalez	Fiction	1923	25.97	94
	47	Reverse-engineered directional conglomeration	John Christian	Fiction	2006	20.37	90
	62	Re-contextualized real-time strategy	Nicole Lynch	Fiction	1953	26.34	23
	63	Polarized heuristic database	Franklin Mack	Fiction	1989	22.38	56
	100	Synchronized client-server service-desk	James Alvarado	Fiction	1906	49.89	29
	116	Multi-tiered foreground contingency	Jamie Gates	Fiction	1938	41.82	50
	125	Public-key analyzing Graphic Interface	Abigail Madden	Fiction	1990	32.41	16
	130	Realigned context-sensitive pricing structure	Jason Rodriguez	Fiction	2004	6.64	90
	134	Polarized bandwidth-monitored throughput	Linda Newman	Fiction	1955	35.72	49
	142	Multi-tiered responsive parallelism	Amanda Wilson	Fiction	1940	48.96	11
	143	Networked multimedia support	Nancy Goodman	Fiction	2012	43.65	50
	144	Future-proofed available software	Matthew Wolf	Fiction	1915	10.77	00


```

2) Find books published after the year 1950

```
34 # 2) Find books published after the year 1950?
35
36 select *
37 from books
38 where Published_Year > 1950
39 order by Published_Year
40
```

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

|   | Book_ID | Title                                          | Author            | Genre           | Published_Year | Price | Stock |
|---|---------|------------------------------------------------|-------------------|-----------------|----------------|-------|-------|
| ▶ | 166     | Customizable discrete Graphical User Interface | Rebecca Alexander | Romance         | 1951           | 11.02 | 56    |
|   | 174     | Pre-emptive executive knowledge user           | Rebecca Mann      | Mystery         | 1951           | 37.83 | 18    |
|   | 432     | Horizontal disintermediate alliance            | Rodney Ward       | Non-Fiction     | 1951           | 8.84  | 55    |
|   | 43      | Function-based zero-defect initiative          | Daniel Nunez      | Romance         | 1952           | 47.39 | 61    |
|   | 150     | Phased logistical open system                  | Jenna Henderson   | Biography       | 1952           | 31.95 | 32    |
|   | 62      | Re-contextualized real-time strategy           | Nicole Lynch      | Fiction         | 1953           | 26.34 | 23    |
|   | 156     | Synergistic grid-enabled website               | Brandon Black     | Fiction         | 1953           | 31.68 | 34    |
|   | 243     | Automated systemic toolset                     | Tiffany Conley    | Fantasy         | 1953           | 8.87  | 65    |
|   | 457     | Configurable disintermediate extranet          | Melissa Lewis     | Mystery         | 1953           | 28.22 | 2     |
|   | 167     | User-friendly radical standardization          | Leon Davis        | Science Fiction | 1954           | 36.02 | 55    |
|   | 193     | Customer-focused tertiary methodology          | Justin Garcia     | Fantasy         | 1954           | 29.54 | 100   |
|   | 242     | Business-focused responsive parallelism        | Amy Reyes         | Mystery         | 1954           | 33.79 | 38    |
|   | 37      | Up-sized tertiary archive                      | Todd Kennedy      | Fantasy         | 1955           | 13.08 | 3     |
|   | 49      | Robust attitude-oriented attitude              | Zachary Hayes     | Biography       | 1955           | 49.5  | 15    |
|   | 102     | Ergonomic stable open architecture             | Robin Brown       | Romance         | 1955           | 40.22 | 31    |
|   | 134     | Polarized bandwidth-monitored throughput       | Linda Newman      | Fiction         | 1955           | 35.72 | 49    |
|   | 293     | Secured object-oriented secured line           | Megan Kennedy     | Fantasy         | 1955           | 17.93 | 58    |
|   | 225     | Synchronized impactful synergy                 | Megan Kennedy     | Science Fiction | 1955           | 10.64 | 00    |

books 103 ×

3) List all customers from the Canada

```
40
41 # 3) List all customers from the Canada
42
43 select *
44 from customers
45 where Country = "Canada"
46
```

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

|   | Customer_ID | Name            | Email                   | Phone      | City         | Country |
|---|-------------|-----------------|-------------------------|------------|--------------|---------|
| ▶ | 38          | Nicholas Harris | christine93@perkins.com | 1234567928 | Davistown    | Canada  |
|   | 415         | James Ramirez   | robert54@hall.com       | 1234568305 | Maxwelltown  | Canada  |
|   | 468         | David Hart      | stokesrebecca@gmail.com | 1234568358 | Thompsonfurt | Canada  |

4) Show orders placed in November 2023

```
--
47 # 4) Show orders placed in November 2023
48
49 select *
50 from orders
51 where Order_Date like "2023%"
52 order by Order_Date
--
```

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

|   | Order_ID | Customer_ID | Book_ID | Order_Date | Quantity | Total_Amount |
|---|----------|-------------|---------|------------|----------|--------------|
| ▶ | 253      | 449         | 273     | 2023-01-03 | 3        | 37.29        |
|   | 343      | 75          | 124     | 2023-01-03 | 7        | 189.7        |
|   | 275      | 495         | 31      | 2023-01-05 | 2        | 42.46        |
|   | 317      | 400         | 88      | 2023-01-06 | 10       | 402.2        |
|   | 284      | 325         | 466     | 2023-01-06 | 4        | 148.68       |
|   | 259      | 437         | 77      | 2023-01-08 | 2        | 88.56        |
|   | 101      | 154         | 344     | 2023-01-09 | 1        | 39.63        |
|   | 330      | 265         | 65      | 2023-01-10 | 10       | 227          |
|   | 15       | 127         | 479     | 2023-01-10 | 6        | 229.62       |
|   | 168      | 324         | 36      | 2023-01-11 | 10       | 345.1        |
|   | 171      | 364         | 397     | 2023-01-12 | 10       | 281.5        |
|   | 338      | 165         | 486     | 2023-01-13 | 2        | 38.26        |
|   | 120      | 101         | 338     | 2023-01-14 | 1        | 10.17        |
|   | 118      | 37          | 189     | 2023-01-14 | 3        | 40.95        |
|   | 249      | 131         | 189     | 2023-01-15 | 8        | 109.2        |
|   | 465      | 337         | 414     | 2023-01-16 | 7        | 157.85       |
|   | 181      | 8           | 117     | 2023-01-18 | 3        | 44.61        |

5) Retrieve the total stock of books available

```
54 # 5) Retrieve the total stock of books available
55
56 select sum(Stock) as Total_Stock
57 from books
58
```

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

|   | Total_Stock |
|---|-------------|
| ▶ | 25056       |

6) Find the details of the most expensive book

```
59 # 6) Find the details of the most expensive book
60
61 select *
62 from books
63 order by Price desc
64 limit 1
65
66 # (OR) Using Window Function
67 select *
68 from (select *, Max(Price) over() AS Max_price
69 from books)a
70 where Price = Max_price
```

| Book Catalog      |     |                                       |                  |         |        |       |                |           |
|-------------------|-----|---------------------------------------|------------------|---------|--------|-------|----------------|-----------|
| Search            |     | Books                                 |                  |         |        |       |                |           |
| Basic Information |     |                                       | Advanced Details |         |        |       |                |           |
|                   |     |                                       | Book_ID          | Title   | Author | Genre | Published_Year | Price     |
|                   |     |                                       |                  |         |        |       | Stock          | Max_price |
| ▶                 | 340 | Proactive system-worthy orchestration | Robert Scott     | Mystery | 1907   | 49.98 | 88             | 49.98     |

7) Show all customers who ordered more than 1 quantity of a book

```
72 # 7) Show all customers who ordered more than 1 quantity of a book
73 select *
74 from customers c
75 join orders o
76 on c.Customer_ID = o.Customer_ID
77 where Quantity > 2
78
79 # 8) Retrieve all orders where the total amount exceeds $20
```

| Result Grid |                  | Filter Rows:               | Export:    |                     | Wrap Cell Content: |          |             |         |            |          |              |
|-------------|------------------|----------------------------|------------|---------------------|--------------------|----------|-------------|---------|------------|----------|--------------|
| Customer_ID | Name             | Email                      | Phone      | City                | Country            | Order_ID | Customer_ID | Book_ID | Order_Date | Quantity | Total_Amount |
| 2           | Crystal Clements | kimberlybennett@curtis.com | 1234567892 | East Derekb erg     | Nicaragua          | 482      | 2           | 429     | 2024-08-31 | 7        | 298.06       |
| 2           | Crystal Clements | kimberlybennett@curtis.com | 1234567892 | East Derekb erg     | Nicaragua          | 347      | 2           | 118     | 2023-02-23 | 3        | 16.56        |
| 6           | Stephen Vasquez  | ricemiguel@yahoo.com       | 1234567896 | Hamiltonstad        | Rwanda             | 47       | 6           | 360     | 2024-07-23 | 3        | 148.02       |
| 8           | Matthew Johnson  | austin kenneth@manning.net | 1234567898 | Kirstenborough      | Israel             | 269      | 8           | 157     | 2024-03-15 | 5        | 95.85        |
| 8           | Matthew Johnson  | austin kenneth@manning.net | 1234567898 | Kirstenborough      | Israel             | 181      | 8           | 117     | 2023-01-18 | 3        | 44.61        |
| 10          | Ronald Osborn    | staciekelley@heath.com     | 1234567900 | Lake Benjamin       | Cameroon           | 107      | 10          | 330     | 2024-10-20 | 6        | 192.12       |
| 11          | Thomas Garcia    | rmller@gmail.com           | 1234567901 | West Monicabury     | Argentina          | 423      | 11          | 349     | 2024-01-10 | 5        | 221.8        |
| 12          | Jennifer Murray  | wilsonbrittany@hotmail.com | 1234567902 | South Ashleychester | Zimbabwe           | 244      | 12          | 380     | 2024-10-28 | 3        | 39.51        |
| 13          | Kristine Kim     | sarahwilliams@hotmail.com  | 1234567903 | Lake Robert         | Nigeria            | 435      | 13          | 230     | 2023-04-14 | 8        | 48.8         |
| 13          | Kristine Kim     | sarahwilliams@hotmail.com  | 1234567903 | Lake Robert         | Nigeria            | 208      | 13          | 101     | 2024-05-21 | 6        | 290.94       |
| 14          | John Wood        | johnsonalexander@gmail.com | 1234567904 | Richardsonville     | New Cale...        | 353      | 14          | 360     | 2023-08-03 | 5        | 246.7        |
| 14          | John Wood        | johnsonalexander@gmail.com | 1234567904 | Richardsonville     | New Cale...        | 5        | 14          | 431     | 2023-07-26 | 7        | 136.36       |
| 15          | Vanessa Gaines   | tbullock@gmail.com         | 1234567905 | Rodriguezmou        | Wallis an...       | 185      | 15          | 25      | 2023-03-09 | 6        | 51.3         |
| 15          | Vanessa Gaines   | tbullock@gmail.com         | 1234567905 | Rodriguezmou        | Wallis an...       | 38       | 15          | 466     | 2023-06-26 | 4        | 148.68       |
| Result 108  |                  | of 108                     | 1          | 2                   | 3                  | 4        | 5           | 6       | 7          | 8        | 9            |

8) Retrieve all orders where the total amount exceeds \$20

```
79 # 8) Retrieve all orders where the total amount exceeds $20
80
81 select *
82 from orders
83 where Total_Amount > 20
84 order by Total_Amount
85
```

|   | Order_ID | Customer_ID | Book_ID | Order_Date | Quantity | Total_Amount |
|---|----------|-------------|---------|------------|----------|--------------|
| ▶ | 307      | 368         | 133     | 2023-11-17 | 1        | 20.96        |
|   | 100      | 207         | 63      | 2023-07-14 | 1        | 22.38        |
|   | 260      | 112         | 170     | 2024-05-07 | 2        | 22.56        |
|   | 319      | 172         | 296     | 2024-06-27 | 2        | 22.98        |
|   | 345      | 325         | 253     | 2023-07-04 | 2        | 23.32        |
|   | 494      | 117         | 127     | 2024-11-23 | 2        | 23.32        |
|   | 288      | 6           | 128     | 2023-11-13 | 1        | 24.04        |
|   | 188      | 46          | 425     | 2023-03-13 | 1        | 24.23        |
|   | 394      | 299         | 425     | 2024-04-14 | 1        | 24.23        |
|   | 272      | 228         | 321     | 2024-11-02 | 1        | 24.32        |
|   | 415      | 336         | 10      | 2023-07-07 | 1        | 24.63        |
|   | 499      | 140         | 48      | 2023-08-26 | 1        | 24.7         |
|   | 172      | 463         | 423     | 2024-09-20 | 1        | 25.63        |
|   | 251      | 109         | 490     | 2023-12-12 | 2        | 25.76        |
|   | 107      | 110         | 275     | 2022-12-22 | 1        | 25.82        |

9) List all genres available in the Books table

```
--
86 # 9) List all genres available in the Books table
87
88 select distinct(Genre) as List_of_Genres
89 from books
90
```

|   | List_of_Genres  |
|---|-----------------|
| ▶ | Biography       |
|   | Fantasy         |
|   | Non-Fiction     |
|   | Fiction         |
|   | Romance         |
|   | Science Fiction |
|   | Mystery         |

10) Find the book with the lowest stock

```
--
91 # 10) Find the book with the lowest stock
92
93 select *
94 from (select *, Min(Stock) over() as Lowest_Stock
95 from books)a
96 where Stock = Lowest_Stock
97
```

|   | Book_ID | Title                                | Author           | Genre           | Published_Year | Price | Stock | Lowest_Stock |
|---|---------|--------------------------------------|------------------|-----------------|----------------|-------|-------|--------------|
| ▶ | 44      | Networked systemic implementation    | Ryan Frank       | Science Fiction | 1965           | 13.55 | 0     | 0            |
|   | 60      | Robust eco-centric capacity          | Brian Haney      | Biography       | 1990           | 35.14 | 0     | 0            |
|   | 127     | Business-focused real-time benchmark | David Nelson     | Science Fiction | 1997           | 11.66 | 0     | 0            |
|   | 163     | Object-based eco-centric challenge   | Douglas McCarthy | Non-Fiction     | 1905           | 19.11 | 0     | 0            |
|   | 378     | Future-proofed heuristic function    | Samantha Mcclain | Romance         | 1903           | 6.01  | 0     | 0            |

11) Calculate the total revenue generated from all orders

```
97
98 # 11) Calculate the total revenue generated from all orders
99
100 select round(sum(Total_Amount),2) as Total_Revenue
101 from orders
102
103 # Advance Queries
```

| Result Grid |               | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|---------------|--------------|---------|--------------------|
|             | Total_Revenue |              |         |                    |
| ▶           | 75628.66      |              |         |                    |

### Advance Queries:

1) Retrieve the total number of books sold for each genre

```
103 # Advance Queries
104 # 1) Retrieve the total number of books sold for each genre
105
106 select Genre, sum(Quantity)as Books_Sold
107 from books b
108 join orders o
109 on b.Book_ID = o.Book_ID
110 group by Genre
111 order by Books_Sold desc
112
```

| Result Grid |                 | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|-----------------|--------------|---------|--------------------|
|             | Genre           | Books_Sold   |         |                    |
| ▶           | Mystery         | 504          |         |                    |
|             | Science Fiction | 447          |         |                    |
|             | Fantasy         | 446          |         |                    |
|             | Romance         | 439          |         |                    |
|             | Non-Fiction     | 351          |         |                    |
|             | Biography       | 285          |         |                    |
|             | Fiction         | 225          |         |                    |

2) Find the average price of books in the "Fantasy" genre

```
113 # 2) Find the average price of books in the "Fantasy" genre
114
115 select Genre, round(avg(Price),2)as Avg_Price
116 from books
117 where Genre ="Fantasy"
118
```

| Result Grid |         | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|---------|--------------|---------|--------------------|
|             | Genre   | Avg_Price    |         |                    |
| ▶           | Fantasy | 25.98        |         |                    |

3) List customers who have placed at least 2 orders

```
119 # 3) List customers who have placed at least 2 orders
120
121 select c.Customer_ID, count(Order_ID)as No_of_Orders
122 from customers c
123 join orders o
124 on c.Customer_ID = o.Customer_ID
125 group by c.Customer_ID
126 having No_of_Orders >=2
127 order by No_of_Orders
```

| Result Grid |             | Filter Rows: | Export: | Wrap Cell Content: |
|-------------|-------------|--------------|---------|--------------------|
|             | Customer_ID | No_of_Orders |         |                    |
| ▶           | 84          | 2            |         |                    |
|             | 137         | 2            |         |                    |
|             | 216         | 2            |         |                    |
|             | 14          | 2            |         |                    |
|             | 109         | 2            |         |                    |
|             | 131         | 2            |         |                    |
|             | 454         | 2            |         |                    |
|             | 377         | 2            |         |                    |
|             | 177         | 2            |         |                    |
|             | 305         | 2            |         |                    |
|             | 438         | 2            |         |                    |
|             | 15          | 2            |         |                    |
|             | 120         | 2            |         |                    |
|             | 199         | 2            |         |                    |
|             | ...         | ...          |         |                    |

Result 115 ×

4) Find the most frequently ordered book

```
129 # 4) Find the most frequently ordered book
130
131 select Book_ID, Title, No_Of_Orders
132 from(select b.Book_ID, Title, count(Order_ID)as No_Of_Orders , rank() over(order by count(Order_ID)desc) as rnk
133 from books b
134 join orders o
135 on b. Book_ID = o.Book_ID
136 group by Book_ID, Title)a
137 where rnk = 1
```

| Result Grid |                                                  |              |
|-------------|--------------------------------------------------|--------------|
| Book_ID     | Title                                            | No_Of_Orders |
| 31          | Implemented encompassing conglomeration          | 4            |
| 73          | Realigned multi-tasking installation             | 4            |
| 88          | Robust tangible hardware                         | 4            |
| 120         | Integrated secondary access                      | 4            |
| 273         | Devolved zero administration process improvem... | 4            |
| 333         | Advanced responsive extranet                     | 4            |
| 491         | Pre-emptive intangible adapter                   | 4            |

5) Show the top 3 most expensive books of 'Fantasy' Genre

```
139 # 5) Show the top 3 most expensive books of 'Fantasy' Genre
140
141 select *
142 from (select *, row_number() over(order by Price desc) as rnk
143 from books
144 where Genre = "Fantasy")a
145 where rnk <= 3
146
```

| Result Grid |                                   |                   |         |                |       |       |     |  |
|-------------|-----------------------------------|-------------------|---------|----------------|-------|-------|-----|--|
| Book_ID     | Title                             | Author            | Genre   | Published_Year | Price | Stock | rnk |  |
| 240         | Stand-alone content-based hub     | Lisa Ellis        | Fantasy | 1957           | 49.9  | 41    | 1   |  |
| 462         | Innovative 3rdgeneration database | Allison Contreras | Fantasy | 1988           | 49.23 | 62    | 2   |  |
| 238         | Optimized even-keeled analyzer    | Sherri Griffith   | Fantasy | 1975           | 48.97 | 72    | 3   |  |

6) Retrieve the total quantity of books sold by each author

```
147 # 6) Retrieve the total quantity of books sold by each author
148
149 select Author, Sum(Quantity)as Sold
150 from books b
151 join orders o
152 on b.Book_ID = o.Book_ID
153 group by Author
154 order by Sold desc
155
```

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

|   | Author            | Sold |
|---|-------------------|------|
| ▶ | Patrick Contreras | 28   |
|   | Melissa Taylor    | 27   |
|   | Thomas Trujillo   | 24   |
|   | Emily James       | 24   |
|   | Sheena Harris     | 23   |
|   | Ellen Doyle       | 23   |
|   | Erica Parker      | 23   |
|   | Valerie Moore     | 23   |
|   | Amanda Wilson     | 22   |
|   | Rachel Gibbs      | 22   |
|   | Kristi Phillips   | 21   |
|   | Tonya Saunders    | 21   |
|   | Anna Roberts      | 21   |
|   | Alexander Wallace | 20   |

7) List the cities where customers who spent over \$30 are located

```
156 # 7) List the cities where customers who spent over $30 are located
157
158 select City, Total_Amount
159 from customers c
160 join orders o
161 on c.Customer_ID = o.Customer_ID
162 where Total_Amount > 30
163 order by Total_Amount
164
```

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

|   | City           | Total_Amount |
|---|----------------|--------------|
| ▶ | South Heather  | 30.02        |
|   | East Tracystad | 30.02        |
|   | Leeview        | 30.5         |
|   | Nelsonmouth    | 31.48        |
|   | Micheleborough | 31.5         |
|   | North Emily    | 31.68        |
|   | New Beverly    | 31.68        |
|   | Robertsview    | 31.68        |
|   | Parkerside     | 32.82        |
|   | Bridgestown    | 32.98        |
|   | Conniefort     | 33.45        |
|   | Clintonmouth   | 33.92        |
|   | Austinfort     | 33.95        |
|   | West Justin    | 34.16        |
|   |                | 35.24        |

8) Find the customer who spent the most on orders

```
165 # 8) Find the customer who spent the most on orders
166
167 select c.Customer_ID, Name, round(sum(Total_Amount),2)as Spending
168 from customers c
169 join orders o
170 on c.Customer_ID = o.Customer_ID
171 group by c.Customer_ID, Name
172 order by Spending desc
173 limit 1
174
```

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

|   | Customer_ID | Name       | Spending |
|---|-------------|------------|----------|
| ▶ | 457         | Kim Turner | 1398.9   |

9) Calculate the stock remaining after fulfilling all orders

```
175 # 9) Calculate the stock remaining after fulfilling all orders
176
177 select b.Book_ID, Title, Stock - IFNULL(SUM(Quantity), 0)as Remaining_Stock
178 from books b
179 left join orders o
180 on b.Book_ID = o.Book_ID
181 group by b.Book_ID, Title, Stock
182 order by Remaining_Stock desc
```

| Result Grid |         |                                            |                 |
|-------------|---------|--------------------------------------------|-----------------|
|             | Book_ID | Title                                      | Remaining_Stock |
| ▶           | 173     | Ergonomic foreground Graphic Interface     | 100             |
|             | 193     | Customer-focused tertiary methodology      | 100             |
|             | 284     | Progressive 24hour artificial intelligence | 99              |
|             | 359     | Secured maximized time-frame               | 99              |
|             | 365     | Synchronized impactful synergy             | 99              |
|             | 475     | Stand-alone zero administration emulation  | 99              |
|             | 87      | Decentralized actuating analyzer           | 98              |
|             | 217     | Open-source 3rdgeneration secured line     | 98              |
|             | 246     | Visionary actuating ability                | 98              |
|             | 251     | Seamless 5thgeneration challenge           | 98              |
|             | 405     | Fundamental regional capacity              | 98              |
|             | 474     | Grass-roots static hub                     | 98              |
|             | 1       | Configurable modular throughput            | 97              |
|             | 396     | Assimilated local complexity               | 97              |