

SQL Speedy Work 3: Amazon

SQL was used in order to contain the original large database and to allow further exploration of the data. The following screenshots will display queries based on the database imported into SQL from a .csv file. The ability to query this data and display the data in a visually appealing manner is why SQL was chosen.

The books sold on Amazon were calculated from 2009 to 2019 and over this period, the majority of the top 550 books were Non-Fiction. No book received a perfect 5 rating; however, some books are more critically acclaimed than others even with the same rating. On average, fictional books received a higher rating than their non-fictional counterparts.

Queries

2.

Database Structure Browse Data Edit Pragmas Execute SQL

Table: Amazon

	Name	Author	UserRating	Reviews	Price	Year	Genre
1	10 Day Green S...	JJ Smith	4.7	17350	8	2018	Non Fiction
2	12 Rules for Life ...	Jordan B. Peterson	4.7	18979	15	2018	Non Fiction
3	5,000 Awesome F...	National Geographic	4.8	7665	12	2019	Non Fiction
4	A Higher Loyalty ...	James Comey	4.7	5983	3	2018	Non Fiction
5	A Patriots History ...	Larry Schweikart	4.6	460	2	2010	Non Fiction
6	A Stolen Life A M...	Jaycee Dugard	4.6	4149	32	2011	Non Fiction
7	Act Like a Lady, T...	Steve Harvey	4.6	5013	17	2009	Non Fiction
8	Adult Coloring Bo...	Adult Coloring Bo...	4.5	2313	4	2016	Non Fiction
9	Adult Coloring Bo...	Blue Star Coloring	4.6	2925	6	2015	Non Fiction
10	Adult Coloring Bo...	Blue Star Coloring	4.4	2951	6	2015	Non Fiction
11	Adult Coloring Bo...	Coloring Books fo...	4.5	2426	8	2015	Non Fiction
12	Alexander Hamilton	Ron Chernow	4.8	9198	13	2016	Non Fiction
13	American Sniper ...	Chris Kyle	4.6	15921	9	2015	Non Fiction
14	Arguing with Idiot...	Glenn Beck	4.6	798	5	2009	Non Fiction
15	Astrophysics for Pe...	Neil deGrasse Ty...	4.7	9374	9	2017	Non Fiction
16	Autobiography of ...	Mark Twain	4.2	491	14	2010	Non Fiction
17	Baby Touch and F...	DK	4.6	5360	5	2015	Non Fiction
18	Balance , Angles...	Angie Grace	4.6	1909	11	2015	Non Fiction
19	Barefoot Contessa ...	Ina Garten	4.8	1296	24	2012	Non Fiction
20	Barefoot Contessa ...	Ina Garten	4.7	615	21	2010	Non Fiction
21	Becoming	Michelle Obama	4.8	61133	11	2018	Non Fiction
22	Becoming	Michelle Obama	4.8	61133	11	2019	Non Fiction
23	Being Mortal: Medici...	Atul Gawande	4.8	11113	15	2015	Non Fiction
24	Between the Worl... ... Ta-Nehisi Coates	Ta-Nehisi Coates	4.7	10070	13	2015	Non Fiction
25	Big Little Lies	Silence of the Lambs	4.8	10070	13	2015	Non Fiction
26	Big Little Lies	Silence of the Lambs	4.8	10070	13	2015	Non Fiction
27	Big Little Lies	Silence of the Lambs	4.8	10070	13	2015	Non Fiction
28	Big Little Lies	Silence of the Lambs	4.8	10070	13	2015	Non Fiction
29	Big Little Lies	Silence of the Lambs	4.8	10070	13	2015	Non Fiction

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Database Structure Browse Data Edit Pragmas Execute SQL

Table: Amazon

	Name	Author	UserRating	Reviews	Price	Year	Genre
287	Tina Fey: Bossyp... ... Tina Fey	Tina Fey	4.3	5977	12	2011	Non Fiction
288	Tools of Titans: T... ... Timothy Ferriss	Timothy Ferriss	4.6	4360	21	2017	Non Fiction
289	True Compass: A Edward M. Kene...	Edward M. Kene...	4.5	438	15	2009	Non Fiction
290	Unbroken: A Worl... ... Laura Hillenbrand	Laura Hillenbrand	4.8	29673	16	2010	Non Fiction
291	Unbroken: A Worl... ... Laura Hillenbrand	Laura Hillenbrand	4.8	29673	16	2011	Non Fiction
292	Unbroken: A Worl... ... Laura Hillenbrand	Laura Hillenbrand	4.8	29673	16	2012	Non Fiction
293	Unbroken: A Worl... ... Laura Hillenbrand	Laura Hillenbrand	4.8	29673	13	2014	Non Fiction
294	Unbroken: A Worl... ... Laura Hillenbrand	Laura Hillenbrand	4.8	29673	16	2014	Non Fiction
295	Unfreedom of the Mark R. Levin	Mark R. Levin	4.9	5956	11	2019	Non Fiction
296	Unicorn Coloring Silly Bear	Silly Bear	4.8	6108	4	2019	Non Fiction
297	Uninvited: Living Lysa TerKeurst	Lysa TerKeurst	4.7	4585	9	2016	Non Fiction
298	What Happened Hillary Rodham Cli...	Hillary Rodham Cli...	4.6	5492	18	2017	Non Fiction
299	What If?: Serious Randall Munroe	Randall Munroe	4.7	9292	17	2014	Non Fiction
300	What to Expect W... ... Heidi Mukofoff	Heidi Mukofoff	4.4	3341	9	2011	Non Fiction
301	Wheat Belly: Los... ... William Davis	William Davis	4.4	7497	6	2012	Non Fiction
302	Wheat Belly: Los... ... William Davis	William Davis	4.4	7497	6	2013	Non Fiction
303	When Breath Bec... ... Paul Kalanithi	Paul Kalanithi	4.8	13779	14	2016	Non Fiction
304	Whose Boat Is Th... ... The Staff of The ...	The Staff of The ...	4.6	6669	12	2018	Non Fiction
305	Wild: From Lost Cheryl Strayed	Cheryl Strayed	4.4	17044	18	2012	Non Fiction
306	Women Food and Geneen Roth	Geneen Roth	4.2	1302	11	2010	Non Fiction
307	You Are a Badass... ... Jen Sincero	Jen Sincero	4.7	14331	8	2016	Non Fiction
308	You Are a Badass... ... Jen Sincero	Jen Sincero	4.7	14331	8	2017	Non Fiction
309	You Are a Badass... ... Jen Sincero	Jen Sincero	4.7	14331	8	2018	Non Fiction
310	You Are a Badass... ... Jen Sincero	Jen Sincero	4.7	14331	8	2019	Non Fiction

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The screenshot shows a database management interface with a toolbar at the top and several panes below.

- Toolbar:** Includes buttons for New Database, Open Database, Write Changes, Revert Changes, Open Project, Save Project, Attach Database, Close Database, Database Structure, Browse Data, Edit Pragmas, and Execute SQL.
- Execute SQL Pane:** A large pane containing a SQL editor with the query "select * from Amazon where Genre like 'fiction'".
- Results Pane:** A table showing the results of the query, listing 240 rows of book data. The columns are Name, Author, UserRating, Reviews, Price, Year, and Genre. Most books listed under 'Genre' are Fiction.
- Output Pane:** A smaller pane showing the raw SQL query and its execution details. It includes a log of the query's execution steps, starting with "SELECT COUNT(*) FROM (SELECT ...".
- Bottom Bar:** Includes buttons for SQL Log, DB Schema, Remote, and UTF-8 encoding.

After importing the .CSV file into SQL, it was not possible to filter by 'fiction' by typing it in the table. By writing a query, I was able to filter solely by the Fictional books which returned 240 rows. Non-fictional books were easily filtered using the filter function in the table.

Screenshot of the SQLite Database Browser showing the results of a query.

SQL:

```

1 SELECT Name, Author, Years, Reviews
2 FROM Amazon
3 ORDER BY UserRating DESC

```

Results:

Name	Author	Years	Reviews
Brown Bear, Brown Bear, What Do You See?	Bill Martin Jr.	2017	14344
Brown Bear, Brown Bear, What Do You See?	Bill Martin Jr.	2019	14344
Dog Man and Cat Kid: From the Creator of Captain Underpants...	Dav Pilkey	2018	5062
Dog Man: A Tale of Two Kitties: From the Creator of Captain Und...	Dav Pilkey	2017	4786
Dog Man: Brawl of the Wild: From the Creator of Captain Under...	Dav Pilkey	2018	7235
Dog Man: Brawl of the Wild: From the Creator of Captain Under...	Dav Pilkey	2019	7235
Dog Man: Fetch! 22: From the Creator of Captain Underpants...	Dav Pilkey	2019	12619
Dog Man: For Whom the Ball Rolls: From the Creator of Captain...	Dav Pilkey	2019	9089
Dog Man: Lord of the Fleas: From the Creator of Captain Under...	Dav Pilkey	2018	5470
Goodnight, Goodnight Construction Site: Hardcover Books for T...	Sherri Duskey Rinker	2012	7038
Goodnight, Goodnight Construction Site: Hardcover Books for T...	Sherri Duskey Rinker	2013	7038
Hamilton: The Revolution	Lin-Manuel Miranda	2016	5867
Harry Potter and the Chamber of Secrets: The Illustrated Edition...	J.K. Rowling	2016	19822
Harry Potter and the Goblet of Fire: The Illustrated Edition (Harr...	J. K. Rowling	2019	7758
Harry Potter and the Prisoner of Azkaban: The Illustrated Edition...	J. K. Rowling	2017	3146
Harry Potter and the Sorcerer's Stone: The Illustrated Edition (H...	J. K. Rowling	2016	10052
Humans of New York: Stories	Brandon Stanton	2015	2812
Jesus Calling: Enjoying Peace in His Presence (with Scripture R...	Sarah Young	2011	19576

-- At line 1:
SELECT Name, Author, Years, Reviews
FROM Amazon
ORDER BY UserRating DESC
-- Results: 550 rows returned in 217ms

Screenshot of the SQLite Database Browser showing the results of a query.

SQL:

```

1 SELECT Name, Author, Years, Reviews
2 FROM Amazon
3 ORDER BY UserRating DESC

```

Results:

Name	Author	Years	Reviews
Jesus Calling: Enjoying Peace in His Presence (with Scripture R...	Sarah Young	2011	19576
Jesus Calling: Enjoying Peace in His Presence (with Scripture R...	Sarah Young	2012	19576
Jesus Calling: Enjoying Peace in His Presence (with Scripture R...	Sarah Young	2013	19576
Jesus Calling: Enjoying Peace in His Presence (with Scripture R...	Sarah Young	2014	19576
Jesus Calling: Enjoying Peace in His Presence (with Scripture R...	Sarah Young	2015	19576
Jesus Calling: Enjoying Peace in His Presence (with Scripture R...	Sarah Young	2016	19576
Last Week Tonight with John Oliver Presents A Day in the Life of ...	Jill Twiss	2018	11881
Little Blue Truck	Alice Schertle	2014	1884
Obama: An Intimate Portrait	Pete Souza	2017	3192
Oh, the Places You'll Go!	Dr. Seuss	2012	21834
Oh, the Places You'll Go!	Dr. Seuss	2013	21834
Oh, the Places You'll Go!	Dr. Seuss	2014	21834
Oh, the Places You'll Go!	Dr. Seuss	2015	21834
Oh, the Places You'll Go!	Dr. Seuss	2016	21834
Oh, the Places You'll Go!	Dr. Seuss	2017	21834
Oh, the Places You'll Go!	Dr. Seuss	2018	21834
Rush Revere and the Brave Pilgrims: Time-Travel Adventures w...	Rush Limbaugh	2013	7150

-- At line 1:
SELECT Name, Author, Years, Reviews
FROM Amazon
ORDER BY UserRating DESC
-- Results: 550 rows returned in 217ms

The screenshot shows the SQLite Database Browser interface. On the left, a results window displays a table of book reviews from the 'Amazon' database, ordered by UserRating in descending order. The table includes columns for Name, Author, Years, and Reviews. The results show several books by Dr. Seuss and Eric Carle. On the right, an SQL log window shows the history of SQL statements submitted, including the current query and its execution details.

```

1 SELECT Name, Author, Years, Reviews
2 FROM Amazon
3 ORDER BY UserRating DESC

```

	Name	Author	Years	Reviews
33	Oh, the Places You'll Go!	Dr. Seuss	2018	21834
34	Oh, the Places You'll Go!	Dr. Seuss	2019	21834
35	Rush Revere and the Brave Pilgrims: Time-Travel Adventures w...	Rush Limbaugh	2013	7150
36	Rush Revere and the First Patriots: Time-Travel Adventures Wit...	Rush Limbaugh	2014	3836
37	Strange Planet, Strange Planet Series,	Nathan W. Pyle	2019	9382
38	The Legend of Zelda: Hyrule Historia	Patrick Thorpe	2013	5396
39	The Magnolia Story	Chip Gaines	2016	7861
40	The Very Hungry Caterpillar	Eric Carle	2013	19546
41	The Very Hungry Caterpillar	Eric Carle	2014	19546
42	The Very Hungry Caterpillar	Eric Carle	2015	19546
43	The Very Hungry Caterpillar	Eric Carle	2016	19546
44	The Very Hungry Caterpillar	Eric Carle	2017	19546
45	The Very Hungry Caterpillar	Eric Carle	2018	19546
46	The Very Hungry Caterpillar	Eric Carle	2019	19546
47	The Wonderful Things You Will Be	Emily Winfield Martin	2016	8842
48	The Wonderful Things You Will Be	Emily Winfield Martin	2017	8842
49	The Wonderful Things You Will Be	Emily Winfield Martin	2018	8842
50	The Wonderful Things You Will Be	Emily Winfield Martin	2019	8842

-- At line 1:
SELECT Name, Author, Years, Reviews
FROM Amazon
ORDER BY UserRating DESC
-- Results: 500 rows returned in 21.7ms.

Returning results from the table with the 4 rows asked for required a query to be written. Most importantly in this query was putting the UserRating in descending order to find the top 50 Best Sellers

4.

The screenshot shows the SQLite Database Browser interface. On the left, a results window displays a table of books from the 'Amazon' database, filtered by a UserRating of 4 or higher and a year of 2019. The table includes columns for Name, Author, UserRating, Reviews, Price, Year, and Genre. The results show several fiction books from 2019. On the right, an SQL log window shows the history of SQL statements submitted, including the current query and its execution details.

	Name	Author	UserRating	Reviews	Price	Year	Genre
1	5,000 Awesome Facts...	National Geographic	4.8	7665	12	2019	Non Fiction
2	Becoming	Michelle Obama	4.8	61133	11	2019	Non Fiction
3	Brown Bear, Brown...	Bill Martin Jr.	4.9	14344	5	2019	Fiction
4	Cant Hurt Me: Ma...	David Goggins	4.8	16244	18	2019	Non Fiction
5	Difficult Riddles F...	M Prefontaine	4.6	7955	5	2019	Non Fiction
6	Dog Man: Brawlio...	Dav Pilkey	4.9	7235	4	2019	Fiction
7	Dog Man: Fetch...	Dav Pilkey	4.9	12619	8	2019	Fiction
8	Dog Man: For Whi...	Dav Pilkey	4.9	9089	8	2019	Fiction
9	Educated: A Memoi...	Tara Westover	4.7	28729	15	2019	Non Fiction
10	Giraffes Can't Dance	Giles Andreae	4.8	14038	4	2019	Fiction
11	Girl, Stop Apologiz...	Rachel Hollis	4.6	7660	12	2019	Non Fiction
12	Girl, Wash Your F...	Rachel Hollis	4.6	22288	12	2019	Non Fiction
13	Good Days Start...	Pretty Simple Press	4.6	10141	6	2019	Non Fiction
14	Goodnight Moon	Margaret Wise Br...	4.8	8837	5	2019	Fiction
15	Guts	Raina Telegemeier	4.8	5476	7	2019	Non Fiction
16	Harry Potter and t...	J. K. Rowling	4.9	7758	18	2019	Fiction
17	Howard Stern Co...	Howard Stern	4.3	5272	16	2019	Non Fiction
18	I Am Not Afraid...	Hopscotch Girls	4.8	9737	7	2019	Non Fiction
19	If Animals Kissed...	Ann Whitford Paul	4.8	16643	4	2019	Fiction
20	Instant Pot Press...	Jennifer Smith	4.4	7596	13	2019	Non Fiction
21	It's Not Supposed...	Lya TerKeurst	4.8	7062	12	2019	Non Fiction
22	National Geograph...	Crispin Boyer	4.8	5347	16	2019	Non Fiction
23	National Geograph...	Amy Shields	4.8	7886	11	2019	Non Fiction
24	Oh, the Places Yo...	Dr. Seuss	4.9	21834	8	2019	Fiction

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Filtering for Books greater than a score of 4 in the year 2019 could be done using the filter function in the SQL table.

5.

Screenshot of SQLite Manager showing two sessions of SQL queries.

Session 1:

```

1 select * from Amazon where Reviews >= 10000
2 INTERSECT
3 SELECT * FROM Amazon WHERE Years == 2018

```

Result table:

Name	Author	UserRating	Reviews	Price	Years	Genre
12 Rules for Life: An Antidote to Chaos	Jordan B. Peterson	4.7	18979	15	2018	Non Fiction
Becoming	Michelle Obama	4.8	61133	11	2018	Non Fiction
Dear Zoo: A Lift-the-Flap Book	Rod Campbell	4.8	10922	5	2018	Fiction
Educated: A Memoir	Tara Westover	4.7	28729	15	2018	Non Fiction
Fahrenheit 451	Ray Bradbury	4.6	10721	8	2018	Fiction
Fire and Fury: Inside the Trump White House	Michael Wolff	4.2	13677	6	2018	Non Fiction
Fist 100 Words	Roger Priddy	4.7	17323	4	2018	Non Fiction

-- At line 1:
select * from Amazon where Reviews >= 10000
INTERSECT
SELECT * FROM Amazon WHERE Years == 2018
-- Result: 26 rows returned in 50ms

Session 2:

```

228 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
229 SELECT type,name,sql,tbl_name FROM sqlite_temp_master;
230 SELECT COUNT(*) FROM (SELECT * FROM Amazon WHERE Years == 2018);
231 SELECT * FROM Amazon WHERE Years == 2018 LIMIT 0, 49999;
232 PRAGMA database_list;
233 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
234 SELECT type,name,sql,tbl_name FROM sqlite_temp_master;
235 SELECT COUNT(*) FROM (select * from Amazon where Reviews >= 10000
236 INTERSECT
237 SELECT * FROM Amazon WHERE Years == 2018);
238 select * from Amazon where Reviews >= 10000
239 INTERSECT
240 SELECT * FROM Amazon WHERE Years == 2018 LIMIT 0, 49999;
241 PRAGMA database_list;
242 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
243 SELECT type,name,sql,tbl_name FROM sqlite_temp_master;
244

```

Type of data currently in cell: NULL
0 byte(s)

SQL Log

Show SQL submitted by Application Clear

Session 3:

```

1 select * from Amazon where Reviews >= 10000
2 INTERSECT
3 SELECT * FROM Amazon WHERE Years == 2018

```

Result table:

Name	Author	UserRating	Reviews	Price	Years	Genre
The Complete Ketogenic Diet for Beginners: Your Essential Guide to Living the Keto Lifestyle	Amy Ramos	4.3	13061	6	2018	Non Fiction
The Four Agreements: A Practical Guide to Personal Freedom, Inner Peace, and Spiritual Growth	Don Miguel Ruiz	4.7	23308	6	2018	Non Fiction
The President Is Missing: A Novel	James Patterson	4.3	10191	18	2018	Fiction
The Subtle Art of Not Giving a F*ck: A Counterintuitive Approach to Living a Good Life	Mark Manson	4.6	26490	15	2018	Non Fiction
The Very Hungry Caterpillar	Eric Carle	4.9	19546	5	2018	Fiction
The Wonky Donkey	Craig Smith	4.8	30183	4	2018	Fiction
You Are a Badass: How to Stop Doubting Your Greatness and Start Living Bold	Jen Sincero	4.7	14331	8	2018	Non Fiction

-- At line 1:
select * from Amazon where Reviews >= 10000
INTERSECT
SELECT * FROM Amazon WHERE Years == 2018
-- Result: 26 rows returned in 50ms

Session 4:

```

228 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
229 SELECT type,name,sql,tbl_name FROM sqlite_temp_master;
230 SELECT COUNT(*) FROM (SELECT * FROM Amazon WHERE Years == 2018);
231 SELECT * FROM Amazon WHERE Years == 2018 LIMIT 0, 49999;
232 PRAGMA database_list;
233 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
234 SELECT type,name,sql,tbl_name FROM sqlite_temp_master;
235 SELECT COUNT(*) FROM (select * from Amazon where Reviews >= 10000
236 INTERSECT
237 SELECT * FROM Amazon WHERE Years == 2018);
238 select * from Amazon where Reviews >= 10000
239 INTERSECT
240 SELECT * FROM Amazon WHERE Years == 2018 LIMIT 0, 49999;
241 PRAGMA database_list;
242 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
243 SELECT type,name,sql,tbl_name FROM sqlite_temp_master;
244

```

Type of data currently in cell: NULL
0 byte(s)

SQL Log

Show SQL submitted by Application Clear

With two given criteria in this query, it was important to write into the query, an intersect. This would allow any returned rows to meet both criteria. Similar to the AND function in excel.

The screenshot shows the SQLite Manager interface with the following details:

- Toolbar:** New Database, Open Database, Write Changes, Revert Changes, Open Project, Save Project, Attach Database, Close Database.
- Menu Bar:** Database Structure, Browse Data, Edit Pragmas, Execute SQL.
- Execute SQL Tab:** Shows the query: `SELECT Name, Author, Years, Reviews FROM Amazon ORDER BY Price DESC`. Below it, the results table displays 550 rows of book data.
- Results Table:**

Name	Author	Years	Reviews
Diagnostic and Statistical Manual of Mental Disorders, 5th Edition	American Psychiatric Association	2013	6679
Diagnostic and Statistical Manual of Mental Disorders, 5th Edition	American Psychiatric Association	2014	6679
The Twilight Saga Collection	Stephenie Meyer	2009	3801
Hamilton: The Revolution	Lin-Manuel Miranda	2016	5867
The Book of Basketball: The NBA According to The Sports Guy	Bill Simmons	2009	858
Harry Potter Paperback Box Set, Books 1-7	J. K. Rowling	2016	13471
Publication Manual of the American Psychological Association, ...	American Psychological Association	2009	8580
Publication Manual of the American Psychological Association, ...	American Psychological Association	2010	8580
Publication Manual of the American Psychological Association, ...	American Psychological Association	2011	8580
Publication Manual of the American Psychological Association, ...	American Psychological Association	2012	8580
- SQL Log:** Displays the executed SQL statements, including the sorting clause `ORDER BY Price DESC`.
- Bottom Bar:** SQL Log, DB Schema, Remote, UTF-8.

The query written here allowed for SQL to sort the data by price in descending order while displaying details of the books.

The screenshot shows the SQLite Manager interface with the following details:

- Toolbar:** New Database, Open Database, Write Changes, Revert Changes, Open Project, Save Project, Attach Database, Close Database.
- Menu Bar:** Database Structure, Browse Data, Edit Pragmas, Execute SQL.
- Execute SQL Tab:** Shows the query: `SELECT Name, Author, Years, Reviews FROM Amazon ORDER BY Price ASC`. Below it, the results table displays 550 rows of book data.
- Results Table:**

Name	Author	Years	Reviews
Cabin Fever, Diary of a Wimpy Kid, Book 6	Jeff Kinney	2011	4505
Diary of a Wimpy Kid: Hard Luck, Book 8	Jeff Kinney	2013	6812
Frozen - Little Golden Book	RH Disney	2014	3642
JOURNEY TO THE ICE P	RH Disney	2014	978
Little Blue Truck	Alice Schertle	2014	1884
The Constitution of the United States	Delegates of the Constitutional Convention	2016	2774
The Getaway	Jeff Kinney	2017	5836
The Short Second Life of Bree Tanner: An Eclipse Novella (The ...	Stephenie Meyer	2010	2122
To Kill a Mockingbird	Harper Lee	2013	26234
To Kill a Mockingbird	Harper Lee	2014	26234
- SQL Log:** Displays the executed SQL statements, including the sorting clause `ORDER BY Price ASC`.
- Bottom Bar:** SQL Log, DB Schema, Remote, UTF-8.

The query written here allowed for SQL to sort the data by price in ascending order while displaying details of the books.

```

1 SELECT * FROM Amazon WHERE Years == 2019
2 INTERSECT
3 SELECT * FROM Amazon WHERE UserRating >= 4

```

Name	Author	UserRating	Reviews	Price	Years	Genre
1 5,000 Awesome Facts About Everything...; National Geographic...	National Geographic Kids	4.8	7665	12	2019	Non Fiction
2 Becoming	Michelle Obama	4.8	61139	11	2019	Non Fiction
3 Brown Bear, Brown Bear, What Do You See?	Bill Martin Jr.	4.9	14344	5	2019	Fiction
4 Can't Hurt Me: Master Your Mind and Defy the Odds	David Goggins	4.8	16244	18	2019	Non Fiction
5 Difficult Riddles For Smart Kids: 300 Difficult Riddles And Brain...	M Prefontaine	4.6	7955	5	2019	Non Fiction
6 Dog Man: Brawl of the Wild: From the Creator of Captain Underpants ...	Dev Pilkey	4.9	7235	4	2019	Fiction
7 Dog Man: Fetch! 22: From the Creator of Captain Underpants ...	Dev Pilkey	4.9	12619	8	2019	Fiction
8 Dog Man: For Whom the Ball Rolls: From the Creator of Captain ...	Dev Pilkey	4.9	9089	8	2019	Fiction
9 Educated: A Memoir	Tara Westover	4.7	28729	15	2019	Non Fiction
10 Giraffes Can't Dance	Giles Andreae	4.8	14038	4	2019	Fiction
11 Girl, Stop Apologizing: A Shame-Free Plan for Embracing and A...	Rachel Hollis	4.6	7660	12	2019	Non Fiction
12 Girl, Wash Your Face: Stop Believing the Lies About Who You Ar...	Rachel Hollis	4.6	2228	12	2019	Non Fiction
13 Good Days Start With Gratitude: A 52 Week Guide To Cultivate ...	Pretty Simple Press	4.6	10141	6	2019	Non Fiction
14 Goodnight Moon	Margaret Wise Brown	4.8	8837	5	2019	Fiction

-- At line 1:
SELECT * FROM Amazon WHERE Years == 2019
INTERSECT
SELECT * FROM Amazon WHERE UserRating >= 4
-- Result: 50 rows returned in 83ms

The intersection between Books released in 2019 that had a higher rating than 4.0 returned 50 rows of data.

```

1 SELECT * FROM Amazon WHERE Years == 2018
2 INTERSECT
3 SELECT * FROM Amazon WHERE UserRating <= 4.3

```

Name	Author	UserRating	Reviews	Price	Years	Genre
1 Crazy Rich Asians (Crazy Rich Asians Trilogy)	Kevin Kwan	4.3	6143	8	2018	Fiction
2 Fire and Fury: Inside the Trump White House	Michael Wolff	4.2	13677	6	2018	Non Fiction
3 The Complete Ketogenic Diet for Beginners: Your Essential Gui...	Amy Ramos	4.3	13061	6	2018	Non Fiction
4 The Instant Pot Electric Pressure Cooker Cookbook: Easy Reci...	Laurel Randolph	4.3	7368	7	2018	Non Fiction
5 The President Is Missing: A Novel	James Patterson	4.3	10191	18	2018	Fiction

-- At line 1:
SELECT * FROM Amazon WHERE Years == 2018
INTERSECT
SELECT * FROM Amazon WHERE UserRating <= 4.3
-- Result: 5 rows returned in 42ms

The intersection between Books released in 2018 that had a lower rating than 4.3 returned 5 rows of data.

The screenshot shows a SQLite database interface with two separate sessions or tabs.

Top Session (Query 1):

```

1 select avg(UserRating)
2 from amazon
3 where genre like 'fiction'

```

Result:

```

avg(UserRating)
1 4.648333333333333

```

SQL Log:

```

-- At line 1:
select avg(UserRating)
from amazon
where genre like 'fiction'
-- Result: 1 rows returned in 23ms

```

Bottom Session (Query 2):

```

1 select avg(UserRating)
2 from amazon
3 where genre like 'non fiction'

```

Result:

```

avg(UserRating)
1 4.59516129032258

```

SQL Log:

```

-- At line 1:
select avg(UserRating)
from amazon
where genre like 'non fiction'
-- Result: 1 rows returned in 24ms

```

The SQL Log for both sessions shows the full query history, including the execution of the first query in the top session, which triggered the optimization of the second query's execution plan.

These queries were written in order to determine the average UserRating from both genres of books in the data. These queries show that Fictional books are more popular in terms of ratings from the readers.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2009;
2 order by price DESC

```

Below the code, the results table displays 10 rows of book data for 2009, ordered by price in descending order. The columns are Name, Author, UserRating, Reviews, Price, Years, and Genre. The results include books like "The Twilight Saga Collection" by Stephenie Meyer and "The Book of Basketball: The NBA According to The Sports Guy" by Bill Simmons.

On the right, the SQL Log tab shows the full history of the session, including the executed query and various database management commands.

Query used to order the books in the data by their price to find the 10 most expensive books in 2009.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2010;
2 order by price DESC

```

Below the code, the results table displays 10 rows of book data for 2010, ordered by price in descending order. The columns are Name, Author, UserRating, Reviews, Price, Years, and Genre. The results include books like "Publication Manual of the American Psychological Association, 6th Edition" by American Psychological Association and "The Official SAT Study Guide" by The College Board.

On the right, the SQL Log tab shows the full history of the session, including the executed query and various database management commands.

Query used to order the books in the data by their price to find the 10 most expensive books in 2010.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2011;
2 order by price DESC

```

Below the code, the results are displayed in a table:

	Name	Author	UserRating	Reviews	Price	Years	Genre
1	Publication Manual of the American Psychological Association, ...	American Psychological Association	4.5	8580	46	2011	Non Fiction
2	The Official SAT Study Guide	The College Board	4.4	1201	40	2011	Non Fiction
3	A Stolen Life: A Memoir	Jaycee Dugard	4.6	4149	32	2011	Non Fiction
4	The Hunger Games Trilogy Boxed Set (1)	Suzanne Collins	4.8	16949	30	2011	Fiction
5	The 5 Love Languages: The Secret to Love That Lasts	Gary Chapman	4.7	3477	28	2011	Non Fiction
6	The 7 Habits of Highly Effective People: Powerful Lessons in Personal Effectiveness (Revised and Updated)	Stephen R. Covey	4.6	9325	24	2011	Non Fiction
7	11/22/63: A Novel	Stephen King	4.6	2052	22	2011	Fiction
8	The 17 Day Diet: A Doctor's Plan Designed for Rapid Results	Mike Moreno	4.3	2314	22	2011	Non Fiction
9	In the Garden of Beasts: Love, Terror, and an American Family in Hitler's Berlin	Eric Larson	4.4	4571	21	2011	Non Fiction
10	The 4 Hour Body: An Uncommon Guide to Rapid Fat Loss, Incredible Health, and Lasting Muscle	Timothy Ferriss	4.3	4587	21	2011	Non Fiction

At the bottom of the results, it says: "Result: 50 rows returned in 78ms".

On the right, the SQL Log shows the following history:

```

79 select * from amazon where years == 2009
80 order by price DESC LIMIT 0, 49999;
81 PRAGMA database_list;
82 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
83 SELECT COUNT(*) FROM (select * from amazon where years == 2010
84 order by price DESC);
85 select * from amazon where years == 2010
86 order by price DESC LIMIT 0, 49999;
87 PRAGMA database_list;
88 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
89 SELECT COUNT(*) FROM (select * from amazon where years == 2011
90 order by price DESC);
91 select * from amazon where years == 2011
92 order by price DESC LIMIT 0, 49999;
93 PRAGMA database_list;
94 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
95

```

Query used to order the books in the data by their price to find the 10 most expensive books in 2011.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2012;
2 order by price DESC

```

Below the code, the results are displayed in a table:

	Name	Author	UserRating	Reviews	Price	Years	Genre
1	Publication Manual of the American Psychological Association, ...	American Psychological Association	4.5	8580	46	2012	Non Fiction
2	The Official SAT Study Guide	The College Board	4.4	1201	40	2012	Non Fiction
3	Fifty Shades Trilogy: Fifty Shades of Grey / Fifty Shades Darker ...	E L James	4.5	13964	32	2012	Fiction
4	The Hunger Games Trilogy Boxed Set (1)	Suzanne Collins	4.8	16949	30	2012	Fiction
5	The 5 Love Languages: The Secret to Love That Lasts	Gary Chapman	4.7	3477	28	2012	Non Fiction
6	Killing Kennedy: The End of Camelot	Bill O'Reilly	4.6	8634	25	2012	Non Fiction
7	Barefoot Contessa Foolproof: Recipes You Can Trust: A Cookbook	Ina Garten	4.8	1296	24	2012	Non Fiction
8	The 7 Habits of Highly Effective People: Powerful Lessons in Personal Effectiveness (Revised and Updated)	Stephen R. Covey	4.6	9325	24	2012	Non Fiction
9	Thomas Jefferson: The Art of Power	Jon Meacham	4.5	1904	23	2012	Non Fiction
10	The Pioneer Woman Cooks: Food from My Frontier	Ree Drummond	4.8	2876	21	2012	Non Fiction

At the bottom of the results, it says: "Result: 50 rows returned in 76ms".

On the right, the SQL Log shows the following history:

```

85 select * from amazon where years == 2010
86 order by price DESC LIMIT 0, 49999;
87 PRAGMA database_list;
88 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
89 SELECT COUNT(*) FROM (select * from amazon where years == 2011
90 order by price DESC);
91 select * from amazon where years == 2011
92 order by price DESC LIMIT 0, 49999;
93 PRAGMA database_list;
94 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
95 SELECT COUNT(*) FROM (select * from amazon where years == 2012
96 order by price DESC);
97 select * from amazon where years == 2012
98 order by price DESC LIMIT 0, 49999;
99 PRAGMA database_list;
100 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;

```

Query used to order the books in the data by their price to find the 10 most expensive books in 2012.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2013
2 order by price DESC

```

Below the code, the results are displayed in a table:

	Name	Author	UserRating	Reviews	Price	Years	Genre
1	Diagnostic and Statistical Manual of Mental Disorders, 5th Edition	American Psychiatric Association	4.5	6679	105	2013	Non Fiction
2	Publication Manual of the American Psychological Association, 6th Edition	American Psychological Association	4.5	8580	46	2013	Non Fiction
3	The Official SAT Study Guide	The College Board	4.4	1201	40	2013	Non Fiction
4	The 5 Love Languages: The Secret to Love That Lasts	Gary Chapman	4.7	3477	28	2013	Non Fiction
5	The 7 Habits of Highly Effective People: Powerful Lessons in Personal Change	Stephen R. Covey	4.6	9325	24	2013	Non Fiction
6	The Goldfinch: A Novel (Pulitzer Prize for Fiction)	Donna Tatt	3.9	33844	20	2013	Fiction
7	The Legend of Zelda: Hyrule Historia	Patrick Thorpe	4.9	5396	20	2013	Fiction
8	Sycamore Row, Jake Brigance	John Grisham	4.5	23114	18	2013	Fiction
9	Hyperbole and a Half: Unfortunate Situations, Flawed Coping Mechanisms, and Other Lessons from a Life Longer Than You	Allie Brosh	4.7	4896	17	2013	Non Fiction
10	Soul Healing Miracles: Ancient and New Sacred Wisdom, Knowledge, and Inspiration for Your Spiritual Journey	Zhi Gang Sha	4.6	220	17	2013	Non Fiction

At the bottom of the code area, there is a note: "Result: 50 rows returned in 78ms".

On the right side of the interface, the SQL Log shows the following history:

```

91 select * from amazon where years == 2011
92 order by price DESC LIMIT 0, 49999;
93 PRAGMA database_list;
94 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
95 SELECT COUNT(*) FROM (select * from amazon where years == 2011
96 order by price DESC);
97 select * from amazon where years == 2012
98 order by price DESC LIMIT 0, 49999;
99 PRAGMA database_list;
100 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
101 SELECT COUNT(*) FROM (select * from amazon where years == 2012
102 order by price DESC);
103 select * from amazon where years == 2013
104 order by price DESC LIMIT 0, 49999;
105 PRAGMA database_list;
106 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
107

```

Query used to order the books in the data by their price to find the 10 most expensive books in 2013.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2014
2 order by price DESC

```

Below the code, the results are displayed in a table:

	Name	Author	UserRating	Reviews	Price	Years	Genre
1	Diagnostic and Statistical Manual of Mental Disorders, 5th Edition	American Psychiatric Association	4.5	6679	105	2014	Non Fiction
2	Publication Manual of the American Psychological Association, 6th Edition	American Psychological Association	4.5	8580	46	2014	Non Fiction
3	The Official SAT Study Guide	The College Board	4.4	1201	40	2014	Non Fiction
4	The Alchemist	Paulo Coelho	4.7	35799	39	2014	Fiction
5	A Game of Thrones / A Clash of Kings / A Storm of Swords / A Feast for Crows / A Dance with Dragons (A Song of Ice and Fire) (5 Book Series)	George R. R. Martin	4.7	19735	30	2014	Fiction
6	Capital in the Twenty First Century	Thomas Piketty	4.5	2884	28	2014	Non Fiction
7	The 5 Love Languages: The Secret to Love That Lasts	Gary Chapman	4.7	3477	28	2014	Non Fiction
8	Thug Kitchen: The Official Cookbook. Eat Like You Give a F*ck (Thug Kitchen Cookbooks) (Volume 1)	Thug Kitchen	4.6	11128	23	2014	Non Fiction
9	Diary of a Wimpy Kid: The Long Haul	Jeff Kinney	4.8	6540	22	2014	Fiction
10	Make It Ahead: A Barefoot Contessa Cookbook	Ina Garten	4.5	1386	20	2014	Non Fiction

At the bottom of the code area, there is a note: "Result: 50 rows returned in 77ms".

On the right side of the interface, the SQL Log shows the following history:

```

97 select * from amazon where years == 2012
98 order by price DESC LIMIT 0, 49999;
99 PRAGMA database_list;
100 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
101 SELECT COUNT(*) FROM (select * from amazon where years == 2012
102 order by price DESC);
103 select * from amazon where years == 2013
104 order by price DESC LIMIT 0, 49999;
105 PRAGMA database_list;
106 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
107 SELECT COUNT(*) FROM (select * from amazon where years == 2013
108 order by price DESC);
109 select * from amazon where years == 2014
110 order by price DESC LIMIT 0, 49999;
111 PRAGMA database_list;
112 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
113

```

Query used to order the books in the data by their price to find the 10 most expensive books in 2014.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2015
2 order by price DESC

```

Below the code, the results are displayed in a table:

	Name	Author	UserRating	Reviews	Price	Years	Genre
1	Publication Manual of the American Psychological Association, ...	American Psychological Association	4.5	8580	46	2015	Non Fiction
2	Thug Kitchen: The Official Cookbook: Eat Like You Give a F*ck (...)	Thug Kitchen	4.6	11128	23	2015	Non Fiction
3	Go Set a Watchman: A Novel	Harper Lee	3.6	14982	19	2015	Fiction
4	The Girl on the Train	Pasca Hawkins	4.1	79446	18	2015	Fiction
5	Humans of New York: Stories	Brandon Stanton	4.9	2812	17	2015	Non Fiction
6	StrengthFinder 2.0	Gallup	4.0	5069	17	2015	Non Fiction
7	The 7 Habits of Highly Effective People: Powerful Lessons in Pe...	Stephen R. Covey	4.7	4725	16	2015	Non Fiction
8	The Whole30: The 30-Day Guide to Total Health and Food Free... 9	Melissa Hartwig Urban	4.6	7508	16	2015	Non Fiction
9	The Wright Brothers	David McCullough	4.7	6169	16	2015	Non Fiction
10	Being Mortal: Medicine and What Matters in the End	Atul Gawande	4.8	11113	15	2015	Non Fiction

Below the table, the SQL log shows the executed queries:

```

-- At line 1:
select * from amazon where years == 2015
order by price DESC
-- Result: 50 rows returned in 76ms

```

Query used to order the books in the data by their price to find the 10 most expensive books in 2015.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2016
2 order by price DESC

```

Below the code, the results are displayed in a table:

	Name	Author	UserRating	Reviews	Price	Years	Genre
1	Hamilton: The Revolution	Lin-Manuel Miranda	4.9	5867	54	2016	Non Fiction
2	Harry Potter Paperback Box Set (Books 1-7)	J. K. Rowling	4.8	13471	52	2016	Fiction
3	Publication Manual of the American Psychological Association, ...	American Psychological Association	4.5	8580	46	2016	Non Fiction
4	The Official SAT Study Guide, 2016 Edition: Official Study Guide...	The College Board	4.3	807	36	2016	Non Fiction
5	Harry Potter and the Chamber of Secrets: The Illustrated Edition... 6	J. K. Rowling	4.9	19822	30	2016	Fiction
7	Thug Kitchen: The Official Cookbook: Eat Like You Give a F*ck (...)	Thug Kitchen	4.6	11128	23	2016	Non Fiction
8	Harry Potter and the Sorcerers Stone: The Illustrated Edition (H... 9	J. K. Rowling	4.9	10052	22	2016	Fiction
10	Double Down: Diary of a Wimpy Kid #11	Jeff Kinney	4.8	5118	20	2016	Fiction
11	Born to Run	Bruce Springsteen	4.7	3729	18	2016	Non Fiction
12	StrengthFinder 2.0	Gallup	4.0	5069	17	2016	Non Fiction

Below the table, the SQL log shows the executed queries:

```

-- At line 1:
select * from amazon where years == 2016
order by price DESC
-- Result: 50 rows returned in 76ms

```

Query used to order the books in the data by their price to find the 10 most expensive books in 2016.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2017
2 order by price DESC

```

Below the code is a table with 10 rows of book data. The columns are: Name, Author, UserRating, Reviews, Price, Years, and Genre. The table shows books like "Publication Manual of the American Psychological Association" and "Harry Potter and the Prisoner of Azkaban".

At the bottom of the SQL tab, there is a note: "Result: 50 rows returned in 73ms".

On the right side of the interface, the SQL Log tab displays the submitted SQL code:

```

115 select * from amazon where years == 2015
116 order by price DESC LIMIT 0, 49999;
117 PRAGMA database_list;
118 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
119 SELECT COUNT(*) FROM (select * from amazon where years == 2015
120 order by price DESC);
121 select * from amazon where years == 2016
122 order by price DESC LIMIT 0, 49999;
123 PRAGMA database_list;
124 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
125 SELECT COUNT(*) FROM (select * from amazon where years == 2016
126 order by price DESC);
127 select * from amazon where years == 2017
128 order by price DESC LIMIT 0, 49999;
129 PRAGMA database_list;
130 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
131

```

Query used to order the books in the data by their price to find the 10 most expensive books in 2017.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon where years == 2018
2 order by price DESC

```

Below the code is a table with 10 rows of book data. The columns are: Name, Author, UserRating, Reviews, Price, Years, and Genre. The table shows books like "Publication Manual of the American Psychological Association" and "Players Handbook (Dungeons & Dragons)".

At the bottom of the SQL tab, there is a note: "Result: 50 rows returned in 75ms".

On the right side of the interface, the SQL Log tab displays the submitted SQL code:

```

121 select * from amazon where years == 2016
122 order by price DESC LIMIT 0, 49999;
123 PRAGMA database_list;
124 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
125 SELECT COUNT(*) FROM (select * from amazon where years == 2016
126 order by price DESC);
127 select * from amazon where years == 2017
128 order by price DESC LIMIT 0, 49999;
129 PRAGMA database_list;
130 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
131 SELECT COUNT(*) FROM (select * from amazon where years == 2017
132 order by price DESC);
133 select * from amazon where years == 2018
134 order by price DESC LIMIT 0, 49999;
135 PRAGMA database_list;
136 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
137

```

Query used to order the books in the data by their price to find the 10 most expensive books in 2018.

The screenshot shows the SQLite Manager interface with the following details:

- Toolbar:** Open Project, Save Project, Attach Database, Close Database.
- Tab Bar:** Database Structure, Browse Data, Edit Pragmas, Execute SQL (selected).
- SQL Editor:**

```

1 select * from amazon where years == 2019
2 order by price DESC

```
- Results Table:**

Name	Author	UserRating	Reviews	Price	Years	Genre
Players Handbook, Dungeons & Dragons	Wizards RPG Team	4.8	16990	27	2019	Fiction
Salt, Fat, Acid, Heat: Mastering the Elements of Good Cooking	Samin Nosrat	4.8	7802	20	2019	Non Fiction
Can't Hurt Me: Master Your Mind and Defy the Odds	David Goggins	4.8	16244	18	2019	Non Fiction
Harry Potter and the Goblet of Fire: The Illustrated Edition (Harry Potter, Book 4)	J. K. Rowling	4.9	7758	18	2019	Fiction
Howard Stern Comes Again	Howard Stern	4.3	5272	16	2019	Non Fiction
National Geographic Kids Why?: Over 1,111 Answers to Everything	Crispin Boyer	4.8	5347	16	2019	Non Fiction
Educated: A Memoir	Tara Westover	4.7	28729	15	2019	Non Fiction
The Subtle Art of Not Giving a F*ck: A Counterintuitive Approach to Living a Good Life	Mark Manson	4.6	26490	15	2019	Non Fiction
Where the Crawdads Sing	Della Owens	4.8	67841	15	2019	Fiction
The Guardians: A Novel	John Grisham	4.5	13609	14	2019	Fiction
- Log Area:**

```
-- At line 1:
select * from amazon where years == 2019
order by price DESC
-- Result: 50 rows returned in 74ms
```
- SQL Log:**

```

127 select * from amazon where years == 2017
128 order by price DESC LIMIT 0, 49999;
129 PRAGMA database_list;
130 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
131 SELECT COUNT(*) FROM (select * from amazon where years == 2017
132 order by price DESC);
133 select * from amazon where years == 2018
134 order by price DESC LIMIT 0, 49999;
135 PRAGMA database_list;
136 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
137 SELECT COUNT(*) FROM (select * from amazon where years == 2018
138 order by price DESC);
139 select * from amazon where years == 2019
140 order by price DESC LIMIT 0, 49999;
141 PRAGMA database_list;
142 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
143

```

Query used to order the books in the data by their price to find the 10 most expensive books in 2019.

The screenshot shows the SQLite Manager interface with the following details:

- Toolbar:** Open Project, Save Project, Attach Database, Close Database.
- Tab Bar:** Database Structure, Browse Data, Edit Pragmas, Execute SQL (selected).
- SQL Editor:**

```

1 select * from amazon where genre like 'fiction'
2 order by userrating DESC

```
- Results Table:**

Name	Author	UserRating	Reviews	Price	Years	Genre
Brown Bear, Brown Bear, What Do You See?	Bill Martin Jr.	4.9	14344	5	2017	Fiction
Brown Bear, Brown Bear, What Do You See?	Bill Martin Jr.	4.9	14344	5	2019	Fiction
Dog Man and Cat Kid: From the Creator of Captain Underpants ...	Dav Pilkey	4.9	5062	6	2018	Fiction
Dog Man: A Tale of Two Kitties: From the Creator of Captain Underpants ...	Dav Pilkey	4.9	4786	8	2017	Fiction
Dog Man: Brawl of the Wild: From the Creator of Captain Underpants ...	Dav Pilkey	4.9	7235	4	2019	Fiction
Dog Man: Brawl of the Wild: From the Creator of Captain Underpants ...	Dav Pilkey	4.9	7235	4	2019	Fiction
Dog Man: Fetch! 22: From the Creator of Captain Underpants ...	Dav Pilkey	4.9	12819	8	2019	Fiction
Dog Man: For Whom the Ball Rolls: From the Creator of Captain Underpants ...	Dav Pilkey	4.9	9089	8	2019	Fiction
Dog Man: Lord of the Fleas: From the Creator of Captain Underpants ...	Dav Pilkey	4.9	5470	6	2018	Fiction
Goodnight, Goodnight Construction Site (Hardcover Books for Toddlers)	Sherri Duskey Rinker	4.9	7038	7	2012	Fiction
- Log Area:**

```
-- At line 1:
select * from amazon where genre like 'fiction'
order by userrating DESC
-- Result: 240 rows returned in 133ms
```
- SQL Log:**

```

163 select * from amazon where years like '2017'
164 order by userrating DESC LIMIT 0, 49999;
165 PRAGMA database_list;
166 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
167 SELECT COUNT(*) FROM (select * from amazon where years like '2017'
168 order by userrating DESC);
169 select * from amazon where genre == 'fiction'
170 order by userrating DESC LIMIT 0, 49999;
171 PRAGMA database_list;
172 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
173 SELECT COUNT(*) FROM (select * from amazon where genre == 'fiction'
174 order by userrating DESC);
175 select * from amazon where genre like 'fiction'
176 order by userrating DESC LIMIT 0, 49999;
177 PRAGMA database_list;
178 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
179

```

This query allowed the top 10 fiction books by user rating to be observed. The “Brown Bear, Brown Bear, What do you see?” books were tied as the best but have more reviews than the other books.

This screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following query:

```

1 select * from amazon where genre like 'non fiction'
2 order by userRating DESC

```

The results pane displays a table with columns: Name, Author, UserRating, Reviews, Price, Years, and Genre. The table shows 11 rows of data, with 'Hamilton: The Revolution' appearing twice at the top. The footer of the results pane indicates 310 rows returned in 164ms.

On the right, the Database Cell tab shows the raw SQL query and its execution log. The log includes several PRAGMA database_list statements and the execution of the main query.

This query allowed the top 10 non-fiction books by user rating to be observed, with Hamilton: The Revolution being tied with 10 other books.

This screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following query:

```

1 select * from amazon
2 order by reviews DESC

```

The results pane displays a table with columns: Name, Author, UserRating, Reviews, Price, Years, and Genre. The table shows 12 rows of data, with 'Where the Crawdads Sing' appearing twice at the top. The footer of the results pane indicates 550 rows returned in 227ms.

On the right, the Database Cell tab shows the raw SQL query and its execution log. The log includes several PRAGMA database_list statements and the execution of the main query.

Query ordered by reviews to show the top 10 most critically reviewed books.

The screenshot shows the SQLite Manager interface. On the left, the SQL tab contains the following code:

```

1 select * from amazon
2 order by userRating ASC

```

Below the code, the results pane displays a table with columns: Name, Author, UserRating, Reviews, Price, Years, and Genre. The data includes books like "The Casual Vacancy" by J.K. Rowling, "Go Set a Watchman" by Harper Lee, and various titles by E.L. James and Veronica Roth.

On the right, the SQL Log pane shows the full query submitted:

```

213 PRAGMA database_list;
214 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
215 ORDER BY reviews DESC;
216 SELECT COUNT(*) FROM (select * from amazon
217 order by reviews DESC LIMIT 0, 49999;
218 PRAGMA database_list;
219 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
220 ORDER BY reviews DESC LIMIT 0, 49999;
221 SELECT "_rowid_," FROM "main"."Amazon" ORDER BY "_rowid_" ASC LII
222 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" O
223 ORDER BY userRating ASC);
224 SELECT * from amazon
225 ORDER BY userRating ASC LIMIT 0, 49999;
226 PRAGMA database_list;
227 SELECT type,name,sql,tbl_name FROM "main".sqlite_master;
228

```

Query ordered by reviews to show the 10 least critically reviewed books.

The screenshot shows the SQLite Manager interface. On the left, the Browse Data tab is selected, showing the 'Amazon' table. A filter is applied to the 'Author' column, showing results for Veronica Roth. The results pane displays a table with columns: Name, Author, UserRating, Reviews, Price, Years, and Genre. The data includes books like "Allegiant" and "Divergent" by Veronica Roth.

On the right, the SQL Log pane shows the full query submitted:

```

259 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" W
260 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE '%roth'
261 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" W
262 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE '%%roth'
263 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE '%ero'
264 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" W
265 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" W
266 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE '%roth'
267 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" W
268 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE '%%% E
269 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" W
270 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE '%vek'
271 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE '%ero'
272 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" W
273 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" W
274 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE '%vero'
275

```

Authors filtered to show books published by Veronica Roth.

The screenshot shows the DB Browser for SQLite interface. At the top, there are tabs for 'Database Structure', 'Browse Data' (which is selected), 'Edit Pragmas', and 'Execute SQL'. Below the tabs is a toolbar with icons for Open Project, Save Project, Attach Database, Close Database, New Record, and Delete Record.

The main area displays a table named 'Amazon' with the following columns: Name, Author, UserRating, Reviews, Price, Years, and Genre. The table contains 8 rows of data. A filter bar is visible above the table, and a modal window titled 'Edit Database Cell' is open on the right side, showing the value '205' in a text input field.

	Name	Author	UserRating	Reviews	Price	Years	Genre
1	Knock.Knock.Jok...	Rob Elliott	4.5	3673	4	2013	Non Fiction
2	Knock.Knock.Jok...	Rob Elliott	4.5	3673	4	2014	Non Fiction
3	Knock.Knock.Jok...	Rob Elliott	4.5	3673	4	2015	Non Fiction
4	Laugh.Out.Loud...	Rob Elliott	4.6	6990	4	2013	Non Fiction
5	Laugh.Out.Loud...	Rob Elliott	4.6	6990	4	2014	Non Fiction
6	Laugh.Out.Loud...	Rob Elliott	4.6	6990	4	2015	Non Fiction
7	Laugh.Out.Loud...	Rob Elliott	4.6	6990	4	2016	Non Fiction
8	Laugh.Out.Loud...	Rob Elliott	4.6	6990	4	2017	Non Fiction

At the bottom left, there are navigation icons for back, forward, and search. The bottom center has a 'Go to:' input field with '1' selected. On the bottom right, there are buttons for 'SQL Log', 'DB Schema', and 'Remote'.

Authors filtered to show books published by Rob Elliott.

The screenshot shows the DB Browser for SQLite interface with two main panes.

Browse Data (Left Pane):

- Table: Amazon
- Columns: Name, Author, UserRating, Reviews, Price, Years, Genre
- Data:

	Name	Author	UserRating	Reviews	Price	Years	Genre
1	Baby Touch and F...	DK	4.6	5360	5	2015	Non Fiction
2	Ultimate Sticker B...	DK	4.5	2586	5	2014	Fiction

Edit Database Cell (Right Pane):

- Mode: Text
- Type of data currently in cell: Text / Numeric
- 2 char(s)
- SQL Log:

 - Show SQL submitted by Application
 - Clear

```
297 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%amer"
298 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%amer"
299 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%amer"
300 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%amer"
301 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%amer"
302 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%amer"
303 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%amer"
304 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%omer"
305 SELECT "_rowid_," FROM "main" ORDER BY "_rowid_," ASC L1
306 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" ORDER BY "_rowid_," ASC L1
307 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main" ORDER BY "_rowid_," ASC L1
308 SELECT "_rowid_," FROM "main" WHERE "Author" LIKE "%seus"
309 SELECT "_rowid_," FROM "main" ORDER BY "_rowid_," ASC L1
310 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main" ORDER BY "_rowid_," ASC L1
311 SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%dk"
312 SELECT COUNT(*) FROM (SELECT "_rowid_," FROM "main"."Amazon" WHERE "Author" LIKE "%dk"
```

Authors filtered to show books published by DK.

The screenshot shows the SQLite Manager interface with two main panes. The left pane displays the results of a SQL query, and the right pane shows the SQL log.

SQL Query Results:

```

1 select * from amazon where userrating == 4.9
2

```

	Name	Author	UserRating	Reviews	Price	Years	Genre
1	Brown Bear, Brown Bear, What Do You See?	Bill Martin Jr.	4.9	14344	5	2017	Fiction
2	Brown Bear, Brown Bear, What Do You See?	Bill Martin Jr.	4.9	14344	5	2019	Fiction
3	Dog Man and Cat Kid. From the Creator of Captain Underpants (...)	Dav Pilkey	4.9	5062	6	2018	Fiction
4	Dog Man. A Tale of Two Kitties. From the Creator of Captain Unde...	Dav Pilkey	4.9	4786	8	2017	Fiction
5	Dog Man. Brawl of the Wild. From the Creator of Captain Under...	Dav Pilkey	4.9	7235	4	2018	Fiction
6	Dog Man. Brawl of the Wild. From the Creator of Captain Under...	Dav Pilkey	4.9	7235	4	2019	Fiction
7	Dog Man. Fetch. 22. From the Creator of Captain Underpants (...)	Dav Pilkey	4.9	12619	8	2019	Fiction
8	Dog Man. For Whom the Ball Rolls. From the Creator of Captain ...	Dav Pilkey	4.9	9089	8	2019	Fiction
9	Dog Man. Lord of the Fleas. From the Creator of Captain Under...	Dav Pilkey	4.9	5470	6	2018	Fiction
10	Goodnight, Goodnight Construction Site. Hardcover Books for T...	Sherri Duskey Rinker	4.9	7038	7	2012	Fiction
11	Goodnight, Goodnight Construction Site. Hardcover Books for T...	Sherri Duskey Rinker	4.9	7038	7	2013	Fiction
12	Hamilton. The Revolution	Lin-Manuel Miranda	4.9	5867	54	2016	Non Fiction
13	Harry Potter and the Chamber of Secrets: The Illustrated Edition...	J.K. Rowling	4.9	19622	30	2016	Fiction

-- At line 1:
select * from amazon where userrating == 4.9
-- Result: 52 rows returned in 88ms

SQL Log:

```

307 SELECT COUNT(*) FROM (SELECT "_rowid_","* FROM "main"."Amazon" W
308 SELECT "_rowid_","* FROM "main"."Amazon" WHERE "Author" LIKE %seus%
309 SELECT "_rowid_","* FROM "main"."Amazon" ORDER BY "_rowid_" ASC LII
310 SELECT COUNT(*) FROM (SELECT "_rowid_","* FROM "main"."Amazon" O
311 SELECT "_rowid_","* FROM "main"."Amazon" WHERE "Author" LIKE %kirk%
312 SELECT COUNT(*) FROM (SELECT "_rowid_","* FROM "main"."Amazon" W
313 SELECT "_rowid_","* FROM "main"."Amazon" ORDER BY "_rowid_" ASC LII
314 SELECT COUNT(*) FROM (SELECT "_rowid_","* FROM "main"."Amazon" O
315 SELECT COUNT(*) FROM (select * from amazon where reviews == 4.9
316 select * from amazon where reviews == 4.9 LIMIT 0, 49999;
317 PRAGMA database_list;
318 SELECT type,name,sql,table_name FROM "main".sqlite_master;
319 SELECT COUNT(*) FROM (select * from amazon where userrating ==
320 select * from amazon where userrating == 4.9 LIMIT 0, 49999;
321 PRAGMA database_list;
322 SELECT type,name,sql,table_name FROM "main".sqlite_master;
323

```

Query written in order to select all the books which received a 4.9 user rating, most of the books were fictional.