Adam Winders CS-300-ON 20 September 2022

Writing Queries Using SQL

Queries

1. Retrieve the first name and last name of each author in the author relation. Order does not matter. (1 points)

SQL Statement:

SELECT firstName, lastName
FROM author;

Output:

lastName firstName

Morrison Toni Paul Solotaroff Vintage Vernor Francis Dick Straub Peter King Stephen Pratt Philip Chase Truddi Collins Bradley Heller Joseph Wills Gary Hofstadter Douglas R. Lee Harper Ambrose Stephen E. Rowling J.K. Salinger J.D. Heaney Seamus Camus Albert Collins, Jr. Bradley

Camus Albert
Collins, Jr. Bradley
Steinbeck John
Castelman Riva
Owen Barbara
O'Rourke Randy
Kidder Tracy
Schleining Lon

2. Retrieve the title and book type in the book relation. Order does not matter. (1 points)

SQL Statement:

SELECT title, TYPE FROM book;

A Deepness in the Sky Magic Terror HOR The Stranger Venice ART Second Wind MYS The Edge MYS Dreamcatcher: A Novel HOR Treasure Chests Beloved Harry Potter and the Prisoner of Azkaban Van Gogh and Gauguin Of Mice and Men Electric Light Group: Six People in Search of a Life PSY Nine Stories The Soul of a New Machine Travels with Charley TRA Catch-22 Jazz Band of Brothers A Guide to SQL Franny and Zooey East of Eden Harry Potter and the Goblet of Fire The Fall Godel, Escher, Bach When Rabbit Howls Song of Solomon The Grapes of Wrath Slay Ride The Catcher in the Rye To Kill a Mockingbird FIC	title	TYPE
The Stranger Venice ART Second Wind MYS The Edge MYS Dreamcatcher: A Novel Treasure Chests Beloved Harry Potter and the Prisoner of Azkaban Van Gogh and Gauguin Of Mice and Men Electric Light Group: Six People in Search of a Life PSY Nine Stories The Soul of a New Machine Travels with Charley Catch-22 Jazz Band of Brothers A Guide to SQL Franny and Zooey East of Eden Harry Potter and the Goblet of Fire The Fall Godel, Escher, Bach When Rabbit Howls Song of Solomon The Grapes of Wrath Slay Ride THC ART ART ART ART ART POE FIC Harry Potter and the Goblet FIC Horry Fortall FIC Godel, Escher, Bach WHI When Rabbit Howls FIC FIC Slay Ride MYS The Catcher in the Rye FIC	A Deepness in the Sky	SFI
Venice ART Second Wind MYS The Edge MYS Dreamcatcher: A Novel HOR Treasure Chests ART Beloved FIC Harry Potter and the Prisoner of Azkaban SFI Van Gogh and Gauguin ART Of Mice and Men FIC Electric Light POE Group: Six People in Search of a Life PSY Nine Stories FIC The Soul of a New Machine SCI Travels with Charley TRA Catch-22 FIC Jazz FIC Band of Brothers HIS A Guide to SQL CMP Franny and Zooey FIC East of Eden FIC Harry Potter and the Goblet of Fire SFI The Fall FIC Godel, Escher, Bach PHI When Rabbit Howls Black House Song of Solomon FIC The Grapes of Wrath Slay Ride MYS The Catcher in the Rye FIC	Magic Terror	HOR
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Treasure Chests Beloved FIC Harry Potter and the Prisoner of Azkaban Van Gogh and Gauguin Of Mice and Men FIC Electric Light Group: Six People in Search of a Life PSY Nine Stories FIC The Soul of a New Machine Travels with Charley Catch-22 FIC Jazz FIC Band of Brothers A Guide to SQL Franny and Zooey Fich Harry Potter and the Goblet of Fire The Fall Godel, Escher, Bach When Rabbit Howls Black House Song of Solomon FIC The Grapes of Wrath Slay Ride The Catcher in the Rye FIC	The Edge	MYS
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The Grapes of Wrath FIC Slay Ride MYS The Catcher in the Rye FIC	Black House	HOR
Slay Ride MYS The Catcher in the Rye FIC	Song of Solomon	FIC
The Catcher in the Rye FIC	The Grapes of Wrath	FIC
•	Slay Ride	MYS
To Kill a Mockingbird FIC	The Catcher in the Rye	FIC
	To Kill a Mockingbird	FIC

3. Retrieve the publisherCode in the book relation. List each publisherCode only once in the result. Order does not matter. (1 points) SQL Statement: SELECT DISTINCT (publisherCode) FROM book; Output: publisherCode ВА ВР BY СТ FΑ FS HC JΡ LB PΕ PLΡU RH SC SS ST TΑ ΤB T0

VB WP 4. Retrieve the title and price of each book in the book relation. Further add a calculated column named 'discount' that shows the price of the books with a 25% discount. Order does not matter. Show the first five rows of the result. (2 points)

SQL Statement:

SELECT title, price, (price-(price * 0.25)) AS discount FROM book;

Output:

title	price	discount
A Deepness in the Sky	7.19	5.3925
Magic Terror	7.99	5.9925
The Stranger	8.00	6.0000
Venice	24.50	18.3750
Second Wind	24.95	18.7125

5. Retrieve the title and price for any book whose price is higher than \$20.00 in the book relation. Show the full result. (2 points)

SQL Statement:

SELECT title, price FROM book WHERE price > 20;

title	price
Venice	24.50
Second Wind	24.95
Treasure Chests	24.46
Van Gogh and Gauguin	21.00
A Guide to SQL	37.95

6. Retrieve the publisherName of all publishers that are in New York only in the publisher relation. Order does not matter. (2 points)

SQL Statement:

SELECT publisherName
FROM publisher
WHERE city = 'New York';

Output:

publisherName

Arcade Publishing Back Bay books Fawcett books Farrar Straus and Giroux HarperCollins publishers Jove Publications Lb books Penguin USA Plume Putnam Publishing Group Random House Schoken books Scribner Simon and Schuster SchoLASTic Trade Tor books Thames and Hudson Vintage books W.W. Norton

7. Retrieve the publisherName of all publishers that are not in New York in the publisher relation. (use != for inequality). Order does not matter. Show the full result. (3 points)

SQL Statement:

```
SELECT publisherName
FROM publisher
WHERE city != 'New York';
```

Output:

publisherName

Arkham House
Basic books
Berkley Publishing
Course Technology
Jeremy P. Tarcher
McPherson and Co.
Taunton Press
Touchstone books
Westview Press

8. Retrieve the bookCode and onHand for each book for which a branch has between 2 and 4 copies in the inventory relation. Use the BETWEEN keyword in this query. Order does not matter. Show the full result. (3 points)

SQL Statement:

```
SELECT b.bookCode, onHand
FROM book b, inventory i
WHERE onHand BETWEEN 2 AND 4 AND b.bookCode = i.bookCode;
```

bookCode	onHand
0180	2
0189	2
0200	3
0378	2
079X	2
079X	3
1351	4
1351	2
138X	3
2226	3

2226	2
2281	3
2766	2
2908	3
3350	2
3906	2
5790	2
6128	4
6128	3
6328	2
6908	2
7405	2
7559	2
8720	3
9611	2
9627	2
9701	2
9701	3
9701	2
9882	3
9883	3
9883	2
9931	2

9. Retrieve the title and type for each book in the book relation in which the type is SFI, HOR, ART or PSY. Use the IN operator for this query. Order the result by type ascending. Show the first five rows of the result. (3 points)

SQL Statement:

```
SELECT title, TYPE
FROM book
WHERE TYPE IN ('SFI','HOR','ART','PSY')
ORDER BY TITLE ASC;
```

title	TYPE
A Deepness in the Sky	SFI
Black House	HOR
Dreamcatcher: A Novel	HOR
Group: Six People in Search of a Life	PSY
Harry Potter and the Goblet of Fire	SFI

10. Retrieve the title for each book in the book relation that begins with the word "The". Order the result by title ascending. Show the full result. (3 points)

SQL Statement:

SELECT title
FROM book
WHERE title LIKE 'The%';

Output:

title

The Stranger
The Edge
The Soul of a New Machine
The Fall

11. Retrieve the title for each book in the book relation that doesn't have a type. Order the result by title ascending. Show the full result. (3 points)

SQL Statement:

SELECT title FROM book WHERE TYPE IS NULL ORDER BY title ASC;

The Grapes of Wrath
The Catcher in the Rye

Output:

title

12. Retrieve all of the columns from the author relation. Order the results by the authors lastName descending. (3 points)

SQL Statement:

SELECT *
FROM author;
ORDER BY lastName DESC;

Output:

authorNum	lastName	firstName
11	Wills	Gary
3	Vintage	Vernor
5	Straub	Peter
20	Steinbeck	John
2	Solotaroff	Paul
25	Schleining	Lon
16	Salinger	J.D.
15	Rowling	J.K.
7	Pratt	Philip
22	Owen	Barbara
23	O'Rourke	Randy
1	Morrison	Toni
13	Lee	Harper
6	King	Stephen
24	Kidder	Tracy
12	Hofstadter	Douglas R.
10	Heller	Joseph
17	Heaney	Seamus
4	Francis	Dick
19	Collins, Jr.	Bradley
9	Collins	Bradley
8	Chase	Truddi
21	Castelman	Riva
18	Camus	Albert
14	Ambrose	Stephen E.

13. Retrieve the title and type from the book relation. Order the results first by type and then by title. Both sort keys should be ascending order. Show the first five rows of the result. (3 points)

SQL Statement:

SELECT title, TYPE FROM book ORDER BY TYPE, title;

title	TYPE
Treasure Chests	ART
Van Gogh and Gauguin	ART
Venice	ART
A Guide to SQL	CMP
Beloved	FIC

Azkaban SFI Travels with Charley TRA

14. Retrieve a count of the number of books published by Penguin USA. Name the column 'Penguin Books'. Order does not matter. Show your full result. (3 points)

SQL Statement:

```
SELECT COUNT(*) AS 'Penguin Books'
FROM book
WHERE publisherCode = 'PE';
```

Output:

Penguin Books

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15. Retrieve the publisherCode and the number of books from publisher from the book relation. Order the result by the count in descending order. Show the first five rows of the result. (3 points)

SQL Statement:

```
SELECT publisherCode, COUNT(*)
FROM book
GROUP BY publisherCode
ORDER BY COUNT(*) DESC;
```

publisherCode	COUNT(*)
PE	4
JP	3
LB	3
PL	3
SC	2

16. Retrieve the publisherCode and the number of books from that publisher from the book relation. Order the results by publisherCode and only show publishers who have 3 or more books in the relation. Hint: will need to use the HAVING keyword. Show your full result. (3 points)

SQL Statement:

```
SELECT publisherCode, COUNT(*)
FROM book
GROUP BY publisherCode
HAVING COUNT(*) >= 3
ORDER BY publisherCode;
```

Output:

publisherCode	COUNT(*)
JР	3
LB	3
PE	4
PL	3

17. Retrieve the number of books in the book relation whose prices is \$20.00 or lower. Order does not matter. Show your full result. (3 points)

```
SQL Statement:
SELECT COUNT(*)
FROM book
WHERE price <= 20;
Output:
COUNT(*)
```

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18. Retrieve the title of the most expensive book in the book relation. Use a subquery for this problem. Show your full result. (3 points) SQL Statement: **SELECT title** FROM book WHERE price = (SELECT MAX(price) FROM book); Output: title A Guide to SQL 19. Retrieve the title of the least expensive book in the book relation. Use a subquery for this problem. Show your full result. (3 points) SQL Statement: SELECT title FROM book WHERE price = (SELECT MIN(price) FROM book); Output:

title

Nine Stories Franny and Zooey

The Catcher in the Rye

20. Retrieve the title of all books in the book relation that are not published in New York. Order result by the city ascending. Use a subquery for this query. (5 points)

```
SQL Statement:
```

Output:

This question did not specify what row(s) of the result to show.

21. Retrieve all of the columns from the book and publisher relations in one result. Use aliases in your query and use the simple JOIN syntax. Order does not matter. (5 points)

SQL Statement:

```
SELECT b.*, p.*
FROM book b, publisher p
WHERE b.publisherCode = p.publisherCode;
```

Output:

This question did not specify what row(s) of the result to show.

22. Rewrite the previous query using the ON keyword. (5 points)

SQL Statement:

```
SELECT b.*, p.*
FROM book b
JOIN publisher p ON b.publisherCode = p.publisherCode;
```

Output:

23. Retrieve the title from the book relation and the city from the publisher relation using a JOIN query. Use aliases in your query. Order the result by title. (5 points)

SQL Statement:

SELECT b.title, p.city FROM book b CROSS JOIN publisher p ORDER BY b.title;

Output:

This question did not specify what row(s) of the result to show.

24. Retrieve the title from the book relation and the author lastName from the author relation. Order by author lastName. Use aliases in your query. This will involve JOINING the book, author and wrote relations. (5 points)

SQL Statement:

```
SELECT title, lastName, a.authorNum, b.bookCode
FROM book b, author a, wrote w
WHERE a.authorNum = w.authorNum AND b.bookCode = w.bookCode
ORDER BY lastName;
```

Output:

This question did not specify what row(s) of the result to show.

25. Retrieve the title from the book relation and branchNum and onHand from the inventory relation. Use aliases in your query. Order the result by title. (5 points)

SQL Statement:

```
SELECT title, branchNum, onHand, b.bookCode
FROM book b, inventory i
WHERE b.bookCode = i.bookCode
ORDER BY title;
```

Output:

26. Retrieve the title from the book relation, the branchName from the branch relation and number of copies onHand from the inventory relation. Use aliases in your query. Order the result by title ascending. (5 points)

SQL Statement:

SELECT title, branchName, onHand, br.branchNum, b.bookCode
FROM book b, branch br, inventory i
WHERE br.branchNum = i.branchNum AND b.bookCode = i.bookCode
ORDER BY title;

Output:

This question did not specify what row(s) of the result to show.

27. Retrieve the title from the book relation and compute the number of copies of the title that all branches have on hand. Name this computed column 'Inventory' Hint: You will need to join book and inventory and do an aggregate query. Use aliases in your query. Order the result by the total number of copies of the book in descending order. Show the first two rows of your result. (5 points)

SQL Statement:

SELECT title, b.bookCode, br.branchNum AS Inventory
FROM book b, inventory i, branch br
WHERE b.bookCode = i.bookCode AND br.branchNum = i.branchNum
ORDER BY Inventory DESC;

Output:

title	bookCode	Inventory
Second Wind	079X	4
Harry Potter and the Prisoner of Azkaban	2226	4

28. Retrieve the first name and last name from the author relation and the title from the book relation for all paperback books in the book relation. Order the result by the author last name and title. (5 points)

SQL Statement:

SELECT firstName, lastName, title, paperback
FROM author, book
WHERE paperback = 'Y'
ORDER BY lastName AND title;

Output:

29. Insert a new branch into the branch relation with the following data branch number = 5, branch name = Henry Lexington Green, branch location = 127 South Road, numEmployees = 7. Then write the query to show all of the branches in the branch relation. (4 points)

SQL Statement:

```
INSERT INTO branch
VALUES(5, 'Henry Lexington Green', '127 South Road', 7);
SELECT *
FROM branch;
```

Output:

This question did not specify what row(s) of the result to show.

30. The Henry Downtown branch moved to 184 St. John's Way. Update the branch table with the new address. (3 points)

SQL Statement:

```
UPDATE branch
SET branchLocation = "184 St. John's Way"
WHERE branchName = 'Henry Downtown' AND branchNum = 1;
```

Output: