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Assignment 3

CS300-ON

Writing SQL Queries for the Henry Books Database

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

**SQL Statement:**

**SELECT lastName, firstName**

**FROM author;**

**Output:**

lastName firstName

Morrison Toni

Solotaroff Paul

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

Steinbeck John

Castelman Riva

Owen Barbara

O'Rourke Randy

Kidder Tracy

Schleining Lon

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

**SQL Statement:**

**SELECT title, TYPE**

**FROM book;**

**Output:**

title TYPE

A Deepness in the Sky SFI

Magic Terror HOR

The Stranger FIC

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 PSY

Black House HOR

Song of Solomon FIC

The Grapes of Wrath FIC

Slay Ride MYS

The Catcher in the Rye FIC

To Kill a Mockingbird FIC

1. 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

BA

BP

BY

CT

FA

FS

HC

JP

LB

PE

PL

PU

RH

SC

SS

ST

TA

TB

TO

VB

WP

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

**SQL Statement:**

**SELECT title, (price – (price \* 0.25)) AS discount**

**FROM book;**

**Output:**

title discount

A Deepness in the Sky 5.3925

Magic Terror 5.9925

The Stranger 6.0000

Venice 18.3750

Second Wind 18.7125

1. 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;**

**Output:**

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

1. 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 IN (“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

1. 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

1. 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 bookCode, onHand**

**FROM inventory**

**WHERE onHand BETWEEN 2 AND 4;**

**Output:**

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

1. 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 TYPE;**

**Output:**

title TYPE

Venice ART

Treasure Chests ART

Van Gogh and Gauguin ART

Magic Terror HOR

Dreamcatcher: A Novel HOR

1. 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%”**

**ORDER BY title;**

**Output:**

title

The Catcher in the Rye

The Edge

The Fall

The Grapes of Wrath

The Soul of a New Machine

The Stranger

1. 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 = null**

**ORDER BY title;**

**Output:**

title

1. 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.

1. 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;**

**Output:**

title TYPE

Treasure Chests ART

Van Gogh and Gauguin ART

Venice ART

A Guide to SQL CMP

Beloved FIC

1. 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(title) AS PenguinBooks**

**FROM book**

**WHERE publisherCode = “PE”;**

**Output:**

PenguinBooks

4

1. 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(publisherCode) AS numBooks**

**FROM book**

**GROUP BY publisherCode**

**ORDER BY numBooks DESC;**

**Output:**

publisherCode numBooks

PE 4

JP 3

LB 3

PL 3

SC 2

1. 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(publisherCode) AS numBooks**

**FROM book**

**GROUP BY publisherCode**

**HAVING numBooks >= 3**

**ORDER BY publisherCode;**

**Output:**

publisherCode numBooks

JP 3

LB 3

PE 4

PL 3

1. 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(title) AS numBooks**

**FROM book**

**WHERE price <= 20;**

**Output:**

numBooks

28

1. 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 IN (**

**SELECT MAX(price)**

**FROM book);**

**Output:**

title

A Guide to SQL

1. 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 IN (**

**SELECT MIN(price)**

**FROM book);**

**Output:**

title

Nine Stories

Franny and Zooey

The Catcher in the Rye

1. 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:**

**SELECT title**

**FROM book**

**WHERE publisherCode IN (**

**SELECT publisherCode**

**FROM publisher**

**WHERE city != “New York”**

**ORDER BY city);**

**Output:**

title

Treasure Chests

Van Gogh and Gauguin

Group: Six People in Search of a Life

Band of Brothers

A Guide to SQL

Godel, Escher, Bach

1. 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 \***

**FROM book b JOIN publisher p**

**WHERE b.publisherCode = p.publisherCode;**

**Output:**

**bookCode title publisherCode TYPE price paperback publisherCode publisherName city**

**0180 A Deepness in TB SFI 7.19 Y TB Tor books New York**

**the Sky**

**0189 Magic Terror FA HOR 7.99 Y FA Fawcett books New York**

**0200 The Stranger VB FIC 8.00 Y VB Vintage books New York**

**0378 Venice SS ART 24.50 N SS Simon and New York**

**Schuster**

**079X Second Wind PU MYS 24.95 N PU Putnam New York**

**Publishing**

**Group**

**0808 The Edge JP MYS 6.99 Y JP Jove New York**

**Publications**

**1351 Dreamcatcher: SC HOR 19.60 N SC Scribner New York**

**A Novel**

**1382 Treasure Chests TA ART 24.46 N TA Taunton Newtown**

**Press CT**

**138X Beloved PL FIC 12.95 Y PL Plume New York**

**2226 Harry Potter ST SFI 13.96 N ST SchoLASTic New York**

**and the Trade**

**Prisoner of**

**Azkaban**

**2281 Van Gogh WP ART 21.00 N WP Westview Boulder and Gauguin Press CO**

**2766 Of Mice and PE FIC 6.95 Y PE Penguin USA New York**

**Men**

**2908 Electric Light FS POE 14.00 N FS Farrar Straus New York**

**and Giroux**

**3350 Group: Six BP PSY 10.40 Y BP Berkley Boston**

**People in Publishing**

**Search of**

**a Life**

**3743 Nine Stories LB FIC 5.99 Y LB Lb books New York**

**3906 The Soul of a BY SCI 11.16 Y BY Back Bay New York**

**New Machine books**

**5163 Travels with PE TRA 7.95 Y PE Penguin USA New York**

**Charley**

**5790 Catch-22 SC FIC 12.00 Y SC Scribner New York**

**6128 Jazz PL FIC 12.95 Y PL Plume New York**

**6328 Band of TO HIS 9.60 Y TO Touchstone Westport**

**Brothers books CT**

**669X A Guide to SQL CT CMP 37.95 Y CT Course Boston**

**Technology**

**6908 Franny and LB FIC 5.99 Y LB Lb books New York Zooey**

**7405 East of Eden PE FIC 12.95 Y PE Penguin USA New York**

**7443 Harry Potter ST SFI 18.16 N ST SchoLASTic New York**

**and the Goblet Trade**

**of Fire**

**7559 The Fall VB FIC 8.00 Y VB Vintage books New York**

**8092 Godel, BA PHI 14.00 Y BA Basic books Boulder**

**Escher, Bach CO**

**8720 When Rabbit JP PSY 6.29 Y JP Jove New York**

**Howls Publications**

**9611 Black House RH HOR 18.81 N RH Random New York**

**House**

**9627 Song of PL FIC 14.00 Y PL Plume New York**

**Solomon**

**9701 The Grapes PE FIC 13.00 Y PE Penguin US New York**

**of Wrath**

**9882 Slay Ride JP MYS 6.99 Y JP Jove New York**

**Publications**

**9883 The Catcher LB FIC 5.99 Y LB Lb books New York**

**in the Rye**

**9931 To Kill a HC FIC 18.00 N HC HarperCollins New York**

**Mockingbird**

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

**SQL Statement:**

**SELECT \***

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

**Output:**

**bookCode title publisherCode TYPE price paperback publisherCode publisherName city**

**0180 A Deepness in TB SFI 7.19 Y TB Tor books New York**

**the Sky**

**0189 Magic Terror FA HOR 7.99 Y FA Fawcett books New York**

**0200 The Stranger VB FIC 8.00 Y VB Vintage books New York**

**0378 Venice SS ART 24.50 N SS Simon and New York**

**Schuster**

**079X Second Wind PU MYS 24.95 N PU Putnam New York**

**Publishing**

**Group**

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**138X Beloved PL FIC 12.95 Y PL Plume New York**

**2226 Harry Potter ST SFI 13.96 N ST SchoLASTic New York**

**and the Trade**

**Prisoner of**

**Azkaban**

**2281 Van Gogh WP ART 21.00 N WP Westview Boulder and Gauguin Press CO**

**2766 Of Mice and PE FIC 6.95 Y PE Penguin USA New York**

**Men**

**2908 Electric Light FS POE 14.00 N FS Farrar Straus New York**

**and Giroux**

**3350 Group: Six BP PSY 10.40 Y BP Berkley Boston**

**People in Publishing**

**Search of**

**a Life**

**3743 Nine Stories LB FIC 5.99 Y LB Lb books New York**

**3906 The Soul of a BY SCI 11.16 Y BY Back Bay New York**

**New Machine books**

**5163 Travels with PE TRA 7.95 Y PE Penguin USA New York**

**Charley**

**5790 Catch-22 SC FIC 12.00 Y SC Scribner New York**

**6128 Jazz PL FIC 12.95 Y PL Plume New York**

**6328 Band of TO HIS 9.60 Y TO Touchstone Westport**

**Brothers books CT**

**669X A Guide to SQL CT CMP 37.95 Y CT Course Boston**

**Technology**

**6908 Franny and LB FIC 5.99 Y LB Lb books New York Zooey**

**7405 East of Eden PE FIC 12.95 Y PE Penguin USA New York**

**7443 Harry Potter ST SFI 18.16 N ST SchoLASTic New York**

**and the Goblet Trade**

**of Fire**

**7559 The Fall VB FIC 8.00 Y VB Vintage books New York**

**8092 Godel, BA PHI 14.00 Y BA Basic books Boulder**

**Escher, Bach CO**

**8720 When Rabbit JP PSY 6.29 Y JP Jove New York**

**Howls Publications**

**9611 Black House RH HOR 18.81 N RH Random New York**

**House**

**9627 Song of PL FIC 14.00 Y PL Plume New York**

**Solomon**

**9701 The Grapes PE FIC 13.00 Y PE Penguin US New York**

**of Wrath**

**9882 Slay Ride JP MYS 6.99 Y JP Jove New York**

**Publications**

**9883 The Catcher LB FIC 5.99 Y LB Lb books New York**

**in the Rye**

**9931 To Kill a HC FIC 18.00 N HC HarperCollins New York**

**Mockingbird**

1. 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 title, city**

**FROM book b JOIN publisher p ON b.publisherCode = p.publisherCode**

**ORDER BY title;**

**Output:**

title city

A Deepness in the Sky New York

A Guide to SQL Boston

Band of Brothers Westport CT

Beloved New York

Black House New York

Catch-22 New York

Dreamcatcher: A Novel New York

East of Eden New York

Electric Light New York

Franny and Zooey New York

Godel, Escher, Bach Boulder CO

Group: Six People in Search of a Life Boston

Harry Potter and the Goblet of Fire New York

Harry Potter and the Prisoner of Azkaban New York

Jazz New York

Magic Terror New York

Nine Stories New York

Of Mice and Men New York

Second Wind New York

Slay Ride New York

Song of Solomon New York

The Catcher in the Rye New York

The Edge New York

The Fall New York

The Grapes of Wrath New York

The Soul of a New Machine New York

The Stranger New York

To Kill a Mockingbird New York

Travels with Charley New York

Treasure Chests Newtown CT

Van Gogh and Gauguin Boulder CO

Venice New York

When Rabbit Howls New York

1. 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**

**FROM book b, author a, wrote w**

**WHERE a.authorNum = w.authorNum AND w.bookCode = b.bookCode**

**ORDER BY lastName;**

**Output:**

title lastName

Band of Brothers Ambrose

The Stranger Camus

The Fall Camus

When Rabbit Howls Chase

Van Gogh and Gauguin Collins

Van Gogh and Gauguin Collins, Jr.

Second Wind Francis

The Edge Francis

Slay Ride Francis

Electric Light Heaney

Catch-22 Heller

Godel, Escher, Bach Hofstadter

The Soul of a New Machine Kidder

Dreamcatcher: A Novel King

Black House King

To Kill a Mockingbird Lee

Jazz Morrison

Beloved Morrison

Song of Solomon Morrison

Treasure Chests O'Rourke

A Guide to SQL Pratt

Harry Potter and the Prisoner of Azkaban Rowling

Harry Potter and the Goblet of Fire Rowling

Nine Stories Salinger

Franny and Zooey Salinger

The Catcher in the Rye Salinger

Treasure Chests Schleining

Group: Six People in Search of a Life Solotaroff

East of Eden Steinbeck

The Grapes of Wrath Steinbeck

Travels with Charley Steinbeck

Of Mice and Men Steinbeck

Black House Straub

Magic Terror Straub

A Deepness in the Sky Vintage

Venice Wills

1. 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**

**From book b, inventory i**

**WHERE b.bookCode = i.bookCode**

**ORDER BY title;**

**Output:**

title branchNum onHand

A Deepness in the Sky 1 2

A Guide to SQL 1 1

Band of Brothers 2 2

Beloved 2 3

Black House 1 2

Catch-22 4 2

Dreamcatcher: A Novel 2 4

Dreamcatcher: A Novel 3 2

East of Eden 3 2

Electric Light 1 3

Electric Light 4 1

Franny and Zooey 2 2

Godel, Escher, Bach 3 1

Group: Six People in Search of a Life 1 2

Harry Potter and the Goblet of Fire 4 1

Harry Potter and the Prisoner of Azkaban 1 3

Harry Potter and the Prisoner of Azkaban 3 2

Harry Potter and the Prisoner of Azkaban 4 1

Jazz 2 4

Jazz 3 3

Magic Terror 2 2

Nine Stories 2 1

Of Mice and Men 3 2

Second Wind 2 1

Second Wind 3 2

Second Wind 4 3

Slay Ride 3 3

Song of Solomon 3 5

Song of Solomon 4 2

The Catcher in the Rye 2 3

The Catcher in the Rye 4 2

The Edge 2 1

The Fall 2 2

The Grapes of Wrath 1 2

The Grapes of Wrath 2 1

The Grapes of Wrath 3 3

The Grapes of Wrath 4 2

The Soul of a New Machine 2 1

The Soul of a New Machine 3 2

The Stranger 1 1

The Stranger 2 3

To Kill a Mockingbird 1 2

Travels with Charley 1 1

Treasure Chests 2 1

Van Gogh and Gauguin 4 3

Venice 3 2

When Rabbit Howls 1 3

1. 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**

**FROM book b, branch br, inventory i**

**WHERE b.bookCode = i.bookCode AND br.branchNum = i.branchNum**

**ORDER BY title;**

**Output:**

title branchName onHand

A Deepness in the Sky Henry Downtown 2

A Guide to SQL Henry Downtown 1

Band of Brothers Henry On The Hill 2

Beloved Henry On The Hill 3

Black House Henry Downtown 2

Catch-22 Henry Eastshore 2

Dreamcatcher: A Novel Henry On The Hill 4

Dreamcatcher: A Novel Henry Brentwood 2

East of Eden Henry Brentwood 2

Electric Light Henry Downtown 3

Electric Light Henry Eastshore 1

Franny and Zooey Henry On The Hill 2

Godel, Escher, Bach Henry Brentwood 1

Group: Six People in Search of a Life Henry Downtown 2

Harry Potter and the Goblet of Fire Henry Eastshore 1

Harry Potter and the Prisoner of Azkaban Henry Downtown 3

Harry Potter and the Prisoner of Azkaban Henry Brentwood 2

Harry Potter and the Prisoner of Azkaban Henry Eastshore 1

Jazz Henry On The Hill 4

Jazz Henry Brentwood 3

Magic Terror Henry On The Hill 2

Nine Stories Henry On The Hill 1

Of Mice and Men Henry Brentwood 2

Second Wind Henry On The Hill 1

Second Wind Henry Brentwood 2

Second Wind Henry Eastshore 3

Slay Ride Henry Brentwood 3

Song of Solomon Henry Brentwood 5

Song of Solomon Henry Eastshore 2

The Catcher in the Rye Henry On The Hill 3

The Catcher in the Rye Henry Eastshore 2

The Edge Henry On The Hill 1

The Fall Henry On The Hill 2

The Grapes of Wrath Henry Downtown 2

The Grapes of Wrath Henry On The Hill 1

The Grapes of Wrath Henry Brentwood 3

The Grapes of Wrath Henry Eastshore 2

The Soul of a New Machine Henry On The Hill 1

The Soul of a New Machine Henry Brentwood 2

The Stranger Henry Downtown 1

The Stranger Henry On The Hill 3

To Kill a Mockingbird Henry Downtown 2

Travels with Charley Henry Downtown 1

Treasure Chests Henry On The Hill 1

Van Gogh and Gauguin Henry Eastshore 3

Venice Henry Brentwood 2

When Rabbit Howls Henry Downtown 3

1. 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, SUM(onHand) AS Inventory**

**FROM book b, inventory i**

**WHERE b.bookCode = i.bookCode**

**GROUP BY title**

**ORDER BY Inventory DESC;**

**Output:**

title Inventory

The Grapes of Wrath 8

Jazz 7

1. 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**

**FROM book b JOIN author a JOIN wrote w ON b.bookCode = w.bookCode AND w.authorNum = a.authorNum**

**WHERE paperback = “Y”**

**ORDER BY lastName, title;**

**Output:**

firstName lastName title

Stephen E. Ambrose Band of Brothers

Albert Camus The Fall

Albert Camus The Stranger

Truddi Chase When Rabbit Howls

Dick Francis Slay Ride

Dick Francis The Edge

Joseph Heller Catch-22

Douglas R. Hofstadter Godel, Escher, Bach

Tracy Kidder The Soul of a New Machine

Toni Morrison Beloved

Toni Morrison Jazz

Toni Morrison Song of Solomon

Philip Pratt A Guide to SQL

J.D. Salinger Franny and Zooey

J.D. Salinger Nine Stories

J.D. Salinger The Catcher in the Rye

Paul Solotaroff Group: Six People in Search of a Life

John Steinbeck East of Eden

John Steinbeck Of Mice and Men

John Steinbeck The Grapes of Wrath

John Steinbeck Travels with Charley

Peter Straub Magic Terror

Vernor Vintage A Deepness in the Sky

1. 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’);**

**Output:**

branchNum branchName branchLocation numEmployees

1 Henry Downtown 16 Riverview 10

2 Henry On The Hill 1289 Bedford 6

3 Henry Brentwood Brentwood Mall 15

4 Henry Eastshore Eastshore Mall 9

5 Henry Lexington Green 127 South Road 7

1. 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 branchNum = 1;**

**Output:**

branchNum branchName branchLocation numEmployees

1 Henry Downtown 184 St. John's Way 10

2 Henry On The Hill 1289 Bedford 6

3 Henry Brentwood Brentwood Mall 15

4 Henry Eastshore Eastshore Mall 9

5 Henry Lexington Green 127 South Road 7