Abu Butt   **March 21, 2017**
CSc-336   **Prof. Peter Barnett**

Assignment 2

Question 1:

Give the range of sales (low range and high range) for title id 'TH1218' for which the author receives a royalty of 22%.

SQL Query:

select lorange, hirange, title_id from roysched where roysched.title_id ="TH1218" and roysched.royalty ="22";

Output:

Host: 134.74.126.107
Database: S17336abutt
Generation Time: Mar 21, 2017 at 08:56 PM
Generated by: phpMyAdmin 4.4.15.10 / MySQL 5.5.42
SQL query: select lorange, hirange, title_id from roysched where roysched.title_id ="TH1218" and roysched.royalty ="22" :
Rows: 1

lorange	hirange	title_id
12001	14000	TH1218

Question 2:

List the title id's of the books you can buy at either store '5023' or store '9333'.

SQL Query: I have 3 queries.

SELECT title_id from store_inventories where store_inventories.stor_id = "5023" or store_inventories.stor_id = "9333";

Output:

title_id
AW1234 [->]
AW5678 [->]
BU1032 [->]
BU1111 [->]
BU2075 [->]
BU7832 [->]
MC2222 [->]
MC3021 [->]
PC1035 [->]
PC8888 [->]
PS1372 [->]
PS2091 [->]
PS3333 [->]
PS7777 [->]
SM1372 [->]
SM1836 [->]
TC3218 [->]
TC4203 [->]
TC7777 [->]
th1218 [->]
AK4153 [->]
AW1234 [->]
AW5678 [->]
FI1203 [->]
FI1206 [->]
FI1226 [->]
FI1329 [->]
RO1214 [->]
RO1335 [->]
TH1217 [->]
TH1220 [->]
TH1332 [->]

SQL Query:

SELECT title_id from pending_orders where pending_orders.stor_id = "5023" or pending_orders.stor_id = "9333";

Output:

title_id
BU1032 [->]
PC8888 [->]

SQL Query:

SELECT title_id from salesdetail where salesdetail.stor_id = "5023" or salesdetail.stor_id = "9333";

Output:

title_id
SM1836 [–
BU2075 [–
TC4203 [–?
MC3021 [–
BU1032 [–
BU1111 [–?
BU2075 [–
BU7832 [–
MC3021 [–
PC8888 [–?
PS7777 [->
TC4203 [–?
BU2075 [–
MC3021 [–
PC1035 [–?
TC4203 [–?
AW5678 [–
AW1234 [–
BU1032 [–
PC1035 [–?
TC4203 [–?
SM1836 [–
AW1234 [–
BU1032 [–
BU2075 [–
BU7832 [–
MC3021 [–
PC1035 [–?
PC8888 [–?
TC4203 [–?
TC7777 [–?

SM1372 [->
SM1372 [->
AW5678 [->
AK1231 [->
BU7832 [->
PC1035 [->]
PS2091 [->]
PS3333 [->]
PS7777 [->]
TC3218 [->]
TC7777 [->]
BU1111 [->]
MC3021 [->
PC1035 [->]
PS7777 [->]
BU2075 [->
BU7832 [->
PS2091 [->]
PS3333 [->]
TC7777 [->]
BU2075 [->
MC3021 [->
BU1111 [->]
MC2222 [->
PC8888 [->]
PS1372 [->]
SM1836 [->
FI1210 [->]
PS2091 [->]
TH1220 [->
FI1204 [->]
FI1222 [->]
FI1228 [->]
PC9999 [->]
FI1201 [->]
FI1211 [->]
AW1234 [->
AW5678 [->

Question 3:

How many different titles appear in the salesdetail table? Identify the output with an "as" clause.

SQL Query:
SELECT count(DISTINCT title_id) as OUTPUT from salesdetail;

Output:

OUTPUT
51 [->]

Question4:

What are the 5 most expensive fiction books in titles? Use order by desc, limit.

SQL Query:
SELECT title FROM titles where titles.type = "fiction" ORDER BY price DESC LIMIT 5;

Output:

title
Lord of the Flies
About Grace
Four Seasons in Rome
All The Light We Cannot See
What Alice Forgot

Question 5:

What is the average price of fiction titles? Identify the output with an "as" clause.

SQL Query:
select type, avg(price) as PriceAverage from titles where titles.type = "fiction" group by type;
select type, avg(price) as PriceAverage from titles where titles.type = "fiction";

Output:

type	PriceAverage
fiction	26.390000

Question 6:

Show which books have the most authors from most to least (descending order, use titleauthor).

SQL Query:
SELECT au_id , COUNT(DISTINCT title_id) FROM titleauthor GROUP BY au_id ORDER BY COUNT(DISTINCT title_id) DESC;

Output:

au_id	COUNT(DISTINCT title_id)
486-29-1786 [–>]	4
712-82-4611 [–>]	3
753-21-1704 [–>]	3
998-72-3567 [–>]	3
243-41-8201 [–>]	3
513-59-7108 [–>]	3
267-41-2394 [–>]	3
553-52-7407 [–>]	3
843-71-8302 [–>]	3
633-12-3406 [–>]	3
733-11-3705 [–>]	3
742-32-2109 [–>]	3
742-62-9612 [–>]	3
899-46-2035 [–>]	3
743-41-1303 [–>]	3
922-72-3110 [–>]	3
274-80-9391 [–>]	2
724-80-9391 [–>]	2
172-32-1176 [–>]	2
213-46-8915 [–>]	2
472-27-2349 [–>]	2
238-95-7766 [–>]	1
722-51-5454 [–>]	1
756-30-7391 [–>]	1
527-72-3246 [–>]	1
724-08-9931 [–>]	1
807-91-6654 [–>]	1
341-22-1782 [–>]	1
846-92-7186 [–>]	1
409-56-7008 [–>]	1
648-92-1872 [–>]	1
893-72-1158 [–>]	1
427-17-2319 [–>]	1
672-71-3249 [–>]	1
712-45-1867 [–>]	1

Question 7:

List the actual titles from titles table (if any) where there are no sales in salesdetail (i.e. do not appear). Explain output with "as" clause. Use a subquery.

SQL Query:

SELECT title AS Output from titles WHERE (SELECT title_id FROM salesdetail where salesdetail.qty = 0) = titles.title_id;

Output:

No Output/ Empty Table

Question 8:

List the stores by name in store_inventories that carry the book whose title_id is 'TC4203'. Use a join or subquery.

SQL Query:

SELECT stores.stor_name FROM stores INNER JOIN store_inventories ON stores.stor_name=store_inventories.title_id = "TC4203";

Output:

stor_name
Mystical Books
Other Tiger
Thoreau Reading Discount Chain
Eric the Read Books
Barnum's
News & Brews
Doc-U-Mat: Quality Laundry and Books
Fricative Bookshop
Bookbeat
Bookworm
Paperbacked
Hollingworth
Lost Relict
Contemporary
Mystical Books
Other Tiger
Thoreau Reading Discount Chain
Eric the Read Books
Barnum's
News & Brews
Doc-U-Mat: Quality Laundry and Books
Fricative Bookshop
Bookbeat
Bookworm
Paperbacked

Question 9:

Give the total number of each title (give actual title) stocked by bookstores in store_inventories from most to least omitting negative quantities. Use a join.

SQL Query:

SELECT titles.title, store_inventories.qty FROM titles INNER JOIN store_inventories ON titles.title_id = store_inventories.title_id and store_inventories.qty >0 GROUP BY title ORDER by store_inventories.qty DESC;

Output:

title	qty
The Gourmet Microwave	19850
You Can Combat Computer Stress!	14700
The Very Hungry Caterpillar	12556
Fifty Years in Buckingham Palace Kitchens	11750
But Is It User Friendly?	7888
Where the Wild Things Are	6390
Sushi, Anyone?	5000
Introduction to python	4100
Prolonged Data Deprivation: Four Case Studies	3437
Object-Oriented Software Engineering	3400
Straight Talk About Computers	3335
Cooking with Computers: Surreptitious Balance Shee...	2471
Emotional Security: A New Algorithm	2206
Silicon Valley Gastronomic Treats	2032
Is Anger the Enemy?	1845
You Can, You Will: 8 Undeniable Qualities of a Win...	642
The Girl in the Spider's Web	500
The Power of I Am: Two Words That Will Change Your...	476
Computer Phobic and Non-Phobic Individuals: Behavi...	375
Secrets of Silicon Valley	350
Algorithms in Board Games	322
The Busy Executive's Database Guide	320
Planet Eating Dogs versus Planet Eating Cats	300
Life Without Fear	111
Killing Killer Bees	106
The Goldfinch	95
The Little Friend	93
Onions, Leeks, and Garlic: Cooking Secrets of the ...	85
Net Etiquette	82
Fly Away	75

The Husband's Secret	75
Girl On The Train	75
Lord of the Flies	75
Der Sündenfall von Wilmslow	74
The Keeper	70
Silent Witness: A Josie Bates Thriller	69
Angel Falls: A Novel	62
Verschwörung	59
Big Little Lies	59
The Girl on the Train	52
About Grace	52
Fifty Shades of Grey	51
Alaskan Dawn	50
The Girl You Left Behind	49
Memory Man	48
The Secret History	44
The Psychology of Computer Cooking	42
The Money Goddess: The Financial Guide For Women	42
Fifty Shades Darker	41
After You	40
All The Light We Cannot See	39
The One You Love	28
Meant to Be	15
The One You Trust	14
The Nightingale	10