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Group: 9

CSC33600-G

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Exercise 2

Question 1

Give the store id's and quantities sold from customer_sales for the title 'TC7777'.

SQL Query

```
SELECT store_id, qty FROM customer_sales WHERE title_id in ('TC7777')
```

Output

+ Options

store_id	qty
6380	630
7896	635
8042	630
8042	630
9678	630

Question 2

Show all the information in discounts for a discount ≥ 15 (15%).

SQL Query

```
SELECT * FROM discounts WHERE discount  $\geq 15$ 
```

Output

+ Options

		discounttype	stor_id	lowqty	highqty	discount
<input type="checkbox"/>	 Edit  Copy  Delete	Huge Volume Discount	0736	1000	2000	30
<input type="checkbox"/>	 Edit  Copy  Delete	Huge Volume Discount	1389	1000	2000	30
<input type="checkbox"/>	 Edit  Copy  Delete	Huge Volume Discount	6380	1000	2000	30
<input type="checkbox"/>	 Edit  Copy  Delete	Huge Volume Discount	7067	1000	2000	30
<input type="checkbox"/>	 Edit  Copy  Delete	Huge Volume Discount	7896	1000	2000	30
<input type="checkbox"/>	 Edit  Copy  Delete	Huge Volume Discount	9283	3000	5000	60
<input type="checkbox"/>	 Edit  Copy  Delete	Huge Volume Discount	9333	2000	5000	50
<input type="checkbox"/>	 Edit  Copy  Delete	Huge Volume Discount	9678	1000	2000	30
<input type="checkbox"/>	 Edit  Copy  Delete	Store Discount	0736	200	2000	15

<input type="checkbox"/>	 Edit	 Copy	 Delete	Store Discount	1389	200	2000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Store Discount	6380	200	2000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Store Discount	7067	200	2000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Store Discount	7896	200	2000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Store Discount	9347	400	800	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Store Discount	9678	200	2000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Volume Discount	0736	100	1000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Volume Discount	1389	100	1000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Volume Discount	6380	100	1000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Volume Discount	7067	100	1000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Volume Discount	7896	100	1000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Volume Discount	9283	200	1000	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Volume Discount	9347	2	10	15
<input type="checkbox"/>	 Edit	 Copy	 Delete	Volume Discount	9678	1	1000	15

Question 3

How many titles in the titles table have no price? Identify the output with an "as" clause.

SQL Query

```
SELECT title AS Output FROM titles WHERE (SELECT price FROM titles WHERE price=0)
```

Output

No Output

Question 4

What are the 5 least expensive thriller books in titles? Use order by, limit.

SQL Query

```
SELECT title FROM titles WHERE titles.type="thriller" ORDER BY price ASC LIMIT 5
```

Output

+ Options

title

Silent Witness: A Josie Bates Thriller

After You

Verschwörung

Der Sündenfall von Wilmslow

The Girl in the Spider's Web

Question 5

Give the average price of each type of books in titles in order of average price.

SQL Query

```
SELECT type, AVG(price) FROM titles GROUP BY type ORDER BY AVG(price) DESC
```

Output

+ Options

type	AVG(price) ▾ 1
non_fic	22.990000
computer sci	22.990000
popular_comp	18.066667
early_learni	16.690000
trad_cook	15.963333
horror	15.420000
business	13.234000
psychology	12.698571
thriller	11.990000
fiction	11.573158
mod_cook	11.490000
UNDECIDED	11.250000
science_fic	7.870000
romance	7.750000

Question 6

What book (actual title) is stocked in the least positive quantity by any one bookstore in store_inventories? Use min in subquery. Identify the output with an "as" clause.

SQL Query

```
1 SELECT title FROM titles WHERE title_id=any(SELECT title_id FROM (SELECT title_id,qty
2 FROM store_inventories WHERE qty>0 ORDER BY qty ASC) AS temp WHERE qty=(SELECT MIN(qty)
3 FROM (SELECT title_id,qty FROM store_inventories WHERE qty>0 ORDER BY qty ASC) AS temp1))
```

Output

+ Options

title

Algorithms in Board Games

The Very Hungry Caterpillar

Object–Oriented Software Engineering

Killing Killer Bees

Question 7

List all the romance books by title which are stocked by any bookstore. Explain output. May require more than one subquery.

SQL Query

```
1 SELECT titles.title
2 FROM titles INNER JOIN store_inventories
3 ON titles.title_id = store_inventories.title_id
4 and titles.type='romance'
```


Output

+ Options

title

The One You Love

The One You Trust

The One You Fear

Fifty Shades Darker

Grey: Fifty Shades of Grey as Told by Christian

Fifty Shades of Grey

Question 8

Display the title and give the range of sales (low range and high range) for 'The Girl in the Spider's Web' for which the author receives a royalty of 22% (roysched). Use a join.

SQL Query

```
1 select titles.title, roysched.lorange, roysched.hirange
2 from roysched INNER JOIN titles
3 ON roysched.title_id = titles.title_id
4 and title="The Girl in the Spider's Web" and royalty='22'
```

Output

+ Options

title

lorange

hirange

The Girl in the Spider's Web

12001

14000

Question 9

Show which books by title had the most authors from most to least (descending order, use titleauthor). Use a join.

SQL Query

```
1 SELECT DISTINCT titles.title, SUM(titleauthor.au_ord) AS "Most Authors"  
   FROM titles INNER JOIN titleauthor on titles.title_id=titleauthor.title_id  
   GROUP BY title ORDER BY SUM(titleauthor.au_ord) DESC
```

Output

+ Options

title	Most Authors
Sushi, Anyone?	6
Cooking with Computers: Surreptitious Balance Shee...	3
Is Anger the Enemy?	3
The Psychology of Computer Cooking	3
Computer Phobic and Non-Phobic Individuals: Behavi...	3
The Busy Executive's Database Guide	3
The Gourmet Microwave	3
Secrets of Silicon Valley	3
Prolonged Data Deprivation: Four Case Studies	1
Emotional Security: A New Algorithm	1
The Girl in the Spider's Web	1
Privileged Witness: A Josie Bates Thriller	1
The Secret History	1
The One You Love	1
Planet Eating Dogs versus Planet Eating Cats	1
Verschwörung	1
The Keeper	1
Grey: Fifty Shades of Grey as Told by Christian	1
The Husband's Secret	1
Angel Falls: A Novel	1
Where the Wild Things Are	1
Fifty Years in Buckingham Palace Kitchens	1
Me Before You	1
Algorithms in Board Games	1
But Is It User Friendly?	1