Started on	Sunday, 22 January 2023, 12:04 AM
State	Finished
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Time taken	14 hours 59 mins
Grade	**100.00** out of 100.00

Question 1

Correct

Mark 35.00 out of 35.00

Given a database with (at least) two tables: customers and orders as shown below, write an SQL query that returns the customer name, city and amount for all orders between $100 and $3500 inclusive, grouped by name and ordered by city.

result for example

```
name                city                totalSum
------------------  ------------------  ---------------
Graham Zusi         California          261
Jozy Altidore       Kyiv                2000.0
Brad Guzan          London              270.65
Julian Green        London              250.45
Nick Rimando        New York            3210.86
```

First 5 rows of "*customers*" table, ordered by id

```
id      name             city          grade   salesperson_id
------  ---------------  ------------  ------  --------------
3001    Brad Guzan       London        100     5005
3002    Nick Rimando     New York      100     5001
3003    Jozy Altidore    Kyiv          200     5007
3004    Fabian Johns     Paris         300     5006
3005    Graham Zusi      California    200     5002
```

First 5 rows of "*orders*" table ordered by order_num

```
order_num   amount     date        customer_id  saleperson_id
----------  ---------  ----------  -----------  -------------
70001       150.5      2022-10-05  3005         5002
70002       65.26      2022-10-05  3002         5001
70003       2480.4     2022-10-10  3009         5003
70004       110.5      2022-08-17  3005         5003
70005       2400.6     2022-07-27  3007         5001
```

For example:

Test	Result

`-- Testing with original db`	`name  city  totalSum`
	`Geoff Cameron  Berlin  2590.9`
	`Graham Zusi  California  1099.0`
	`Brad Guzan  London  270.65`
	`Julian Green  London  250.45`
	`Brad Davis  New York  2400.6`
	`Nick Rimando  New York  3210.86`
	`Fabian Johns  Paris  1983.43`

Answer: (penalty regime: 0 %)

```
SELECT name, city, SUM(amount) totalSum
FROM orders INNER JOIN customers
ON customers.id = orders.customer_id
WHERE amount>=100 and amount<=3500
GROUP BY name
ORDER BY city
```

	Test	Expected	Got	
✔	-- Testing with original db	name city totalSum ---------- ---------- - --- Geoff Cameron Berlin 2590.9 Graham Zusi California 1099.0 Brad Guzan London 270.65 Julian Green London 250.45 Brad Davis New York 2400.6 Nick Rimando New York 3210.86 Fabian Johns Paris 1983.43	name city totalSum ---------- ---------- - --- Geoff Cameron Berlin 2590.9 Graham Zusi California 1099.0 Brad Guzan London 270.65 Julian Green London 250.45 Brad Davis New York 2400.6 Nick Rimando New York 3210.86 Fabian Johns Paris 1983.43	✔
✔	-- Testing with extra rows	name city totalSum ---------- ---------- - --- Geoff Cameron Berlin 2590.9 Graham Zusi California 1599.0 Jozy Altidore Kyiv 2000.0 Brad Guzan London 270.65 Julian Green London 250.45 Brad Davis New York 2400.6 Nick Rimando New York 3210.86 Fabian Johns Paris 1983.43	name city totalSum ---------- ---------- - --- Geoff Cameron Berlin 2590.9 Graham Zusi California 1599.0 Jozy Altidore Kyiv 2000.0 Brad Guzan London 270.65 Julian Green London 250.45 Brad Davis New York 2400.6 Nick Rimando New York 3210.86 Fabian Johns Paris 1983.43	✔

Passed all tests! ✔

Correct

Marks for this submission: 35.00/35.00.

Question 2

Correct

Mark 15.00 out of 15.00

Given a database with (at least) a table customers as shown below, write an SQL query that insert in to table new customer with name Stefan Huk ,id 3006, city Kyiv and grade 500, salesperson_id 5007 .

After insert write an SQL query that returns the all columns of all customers who live in London or Kyiv, in ascending order of id.

.

First 5 rows of *customers* table, ordered by id

```
id      name             city          grade   salesperson_id
------  ---------------  ------------  ------  --------------
3001    Brad Guzan       London        100     5005
3002    Nick Rimando     New York      100     5001
3003    Jozy Altidore    Kyiv          200     5007
3004    Fabian Johns     Paris         300     5006
3005    Graham Zusi      California    200     5002
```

For example:

Test	Result

`-- Testing with original db`	`id  name  city  grade  salesperson_id`
	`3001  Brad Guzan  Londo  100  5005`
	`3006  Stefan Huk  Kyiv  500  5007`
	`3008  Julian Gre  Londo  300  5002`

Answer: (penalty regime: 0 %)

```
1  INSERT INTO customers (id,name,city,grade,salesperson_id) VALUES (3006,'Stefan Huk', 'Kyiv', 500, 5007);
2  SELECT * FROM customers WHERE city IN ("London", "Kyiv") ORDER BY id;
3
```

	Test	Expected	Got	

✔	`-- Testing with original db`	`id name city grade salesperson_id`
		`---------- ---------- ----- ---------- --------------`
		`3001 Brad Guzan Londo 100 5005`
		`3006 Stefan Huk Kyiv 500 5007`
		`3008 Julian Gre Londo 300 5002`
			`id name city grade salesperson_id`
			`---------- ---------- ----- ---------- --------------`
			`3001 Brad Guzan Londo 100 5005`
			`3006 Stefan Huk Kyiv 500 5007`
			`3008 Julian Gre Londo 300 5002`
				✔

✔	`-- Testing with extra rows`	`id name city grade salesperson_id`
		`---------- ---------- ----- ---------- --------------`
		`2999 Angus McGe Londo 500 6001`
		`3001 Brad Guzan Londo 100 5005`
		`3006 Stefan Huk Kyiv 500 5007`
		`3008 Julian Gre Londo 300 5002`
			`id name city grade salesperson_id`
			`---------- ---------- ----- ---------- --------------`
			`2999 Angus McGe Londo 500 6001`
			`3001 Brad Guzan Londo 100 5005`
			`3006 Stefan Huk Kyiv 500 5007`
			`3008 Julian Gre Londo 300 5002`
				✔

Passed all tests! ✔

Correct

Marks for this submission: 15.00/15.00.

Question 3

Correct

Mark 20.00 out of 20.00

Given a database with (at least) two tables: *customers* and *orders* as shown below, write an SQL query that returns the order_num, order amount and customer name for all orders between $500 and $2000 inclusive, ordered by order_num.

First 5 rows of *customers* table, ordered by id

id	name	city	grade	salesperson_id
3001	Brad Guzan	London	100	5005
3002	Nick Rimando	New York	100	5001
3003	Jozy Altidore	Kyiv	200	5007
3004	Fabian Johns	Paris	300	5006
3005	Graham Zusi	California	200	5002

First 5 rows of *orders* table ordered by order_num

order_num	amount	date	customer_id	saleperson_id
70001	150.5	2022-10-05	3005	5002
70002	65.26	2022-10-05	3002	5001
70003	2480.4	2022-10-10	3009	5003
70004	110.5	2022-08-17	3009	5003
70005	2400.6	2022-07-27	3007	5001

For example:

Test	Result
`-- Testing with original db`	order_num | amount | name 70007 | 948.5 | Graham Zusi 70010 | 1983.43 | Fabian Johns

Answer: (penalty regime: 0 %)

```
SELECT order_num, amount, name
FROM orders o JOIN customers ON  o.customer_id = customers.id
WHERE o.customer_id = customers.id
AND o.amount BETWEEN 500 AND 2000
ORDER BY amount
```

	Test	Expected	Got	
✔	`-- Testing with original db`	order_num | amount | name 70007 | 948.5 | Graham Zusi 70010 | 1983.43 | Fabian Johns	order_num | amount | name 70007 | 948.5 | Graham Zusi 70010 | 1983.43 | Fabian Johns	✔

	Test	Expected			Got			
✔	`-- Testing with extra rows`	order_num	amount	name	order_num	amount	name	✔
		69007	500.0	Graham Zusi	69007	500.0	Graham Zusi	
		70007	948.5	Graham Zusi	70007	948.5	Graham Zusi	
		70010	1983.43	Fabian Johns	70010	1983.43	Fabian Johns	
		70014	2000.0	Jozy Altidore	70014	2000.0	Jozy Altidore	

Passed all tests! ✔

Correct

Marks for this submission: 20.00/20.00.

Question **4**

Correct

Mark 15.00 out of 15.00

Given a database with (at least) a table *customers* as shown below, write an SQL query that returns the name, city and grade of all customers who live in London or Paris, in ascending order of name.

First 5 rows of *customers* table, ordered by id

```
id      name             city          grade   salesperson_id
------  ---------------  ------------  ------  --------------
3001    Brad Guzan       London        100     5005
3002    Nick Rimando     New York      100     5001
3003    Jozy Altidore    Kyiv          200     5007
3004    Fabian Johns     Paris         300     5006
3005    Graham Zusi      California    200     5002
```

For example:

Test	Result

`-- Testing with original db`	`name` `city` `grade`
	`Brad Guzan` `London` `100`
	`Fabian Johns` `Paris` `300`
	`Julian Green` `London` `300`

Answer: (penalty regime: 0 %)

```
1  SELECT name, city, grade FROM customers
2  WHERE city IN ("London", "Paris")
3  ORDER BY name
```

	Test	Expected	Got	

✔	`-- Testing with original db`	`name` `city` `grade`
		`Brad Guzan` `London` `100`
		`Fabian Johns` `Paris` `300`
		`Julian Green` `London` `300`
			`name` `city` `grade`
			`Brad Guzan` `London` `100`
			`Fabian Johns` `Paris` `300`
			`Julian Green` `London` `300`
				✔

✔	`-- Testing with extra rows`	`name` `city` `grade`
		`Angus McGee` `Paris` `500`
		`Brad Guzan` `London` `100`
		`Fabian Johns` `Paris` `300`
		`Julian Green` `London` `300`
			`name` `city` `grade`
			`Angus McGee` `Paris` `500`
			`Brad Guzan` `London` `100`
			`Fabian Johns` `Paris` `300`
			`Julian Green` `London` `300`
				✔

Passed all tests! ✔

Correct

Marks for this submission: 15.00/15.00.

Question 5

Correct

Mark 15.00 out of 15.00

Given a database with (at least) a table "customers" as shown below, write an SQL query that Update in to "customers" table , a customer named Jozy Altidore ,id 3003, from city Kyiv to city Paris and from grade 500 to grade 300 , salesperson_id 5007 .

After Update write an SQL query that returns the columns name, city and grade of all customers who live in London or Paris, in ascending order of id.

.

First 5 rows of *customers* table, ordered by id

id	name	city	grade	salesperson_id
3001	Brad Guzan	London	100	5005
3002	Nick Rimando	New York	100	5001
3003	Jozy Altidore	Kyiv	200	5007
3004	Fabian Johns	Paris	300	5006
3005	Graham Zusi	California	200	5002

For example:

Test	Result
`-- Testing with original db`	name	city	grade Brad Guzan	London	100 Jozy Altidore	Paris	300 Fabian Johns	Paris	300 Julian Green	London	300

Answer: (penalty regime: 0 %)

```
UPDATE customers
SET city = 'Paris', grade = '300'
WHERE id = 3003;

SELECT name, city, grade FROM customers
WHERE city IN ("London", "Paris")
ORDER BY id
```

	Test	Expected	Got	

✔	`-- Testing with original db`	`name city grade`
		`Brad Guzan London 100`
		`Jozy Altidore Paris 300`
		`Fabian Johns Paris 300`
		`Julian Green London 300`
			`name city grade`
			`Brad Guzan London 100`
			`Jozy Altidore Paris 300`
			`Fabian Johns Paris 300`
			`Julian Green London 300`
				✔

✔	`-- Testing with extra rows`	`name city grade`
		`Angus McGee London 500`
		`Brad Guzan London 100`
		`Jozy Altidore Paris 300`
		`Fabian Johns Paris 300`
		`Julian Green London 300`
			`name city grade`
			`Angus McGee London 500`
			`Brad Guzan London 100`
			`Jozy Altidore Paris 300`
			`Fabian Johns Paris 300`
			`Julian Green London 300`
				✔

Passed all tests! ✔

Correct

Marks for this submission: 15.00/15.00.

◄ 10.1 QUIZ. DATA BASE

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