

Практика 23.10.2024

1. Нужно зарегистрироваться на сайте sql-ex
2. Выполнить задания: 6, 7, 9, 13, 14, 18, 19, 16, 29, 30, 34
3. В качестве ответа приложить скрипты и скриншоты с сайта, иллюстрирующие, что запрос выполнен верно. Приложить все одним файлом

```
-- 6
SELECT DISTINCT p.maker, l.speed
FROM Product
JOIN Laptop l ON p.model = l.model
WHERE p.type = 'Laptop' AND l.hd >= 10;
```

Правильно

maker speed	
A	450
A	600
A	750
B	750

```
-- 7
SELECT
    DISTINCT product.model,
    pc.price
FROM Product JOIN pc ON (product.model = pc.model)
WHERE maker = 'B'

UNION
SELECT
    DISTINCT product.model,
    laptop.price
FROM product
```

```
JOIN laptop ON (product.model=laptop.model)
WHERE maker='B'
```

```
UNION
SELECT DISTINCT product.model,
    printer.price
FROM product
JOIN printer ON product.model=printer.model
WHERE maker='B'
```

Правильно

model	price
1121	850.0000
1750	1200.0000

--9

```
SELECT DISTINCT maker FROM
(SELECT maker, model FROM Product) p
JOIN
(SELECT model, speed FROM PC WHERE speed >= 450) pc
ON p.model = pc.model
```

Правильно

maker
A
B
E

--13

```
SELECT AVG(speed)
FROM pc
JOIN product
```

```
ON pc.model = product.model
WHERE product.maker = 'A';
```

Правильно

606

```
--14
SELECT c.class,
       s.name,
       c.country
FROM
  (Ships s
  JOIN
  Classes c
  ON s.class = c.class)
WHERE c.numGuns >= 10;
```

Правильно

class	name	country
North Carolina	North Carolina	USA
North Carolina	South Dakota	USA
North Carolina	Washington	USA
Tennessee	California	USA
Tennessee	Tennessee	USA

```
-- 18
SELECT DISTINCT maker, price
FROM
  (product p1
  JOIN printer p2
  ON (p1.model = p2.model))
WHERE p2.color = 'y'
      AND p2.price = (
  SELECT
```

```

        MIN(price)
    FROM
        printer
    WHERE
        color = 'y'
    );

```

Правильно

maker	price
D	270.0000

```

-- 19
SELECT maker, AVG(screen) FROM
Product p
JOIN
Laptop l
ON p.model = l.model
GROUP BY maker

```

Правильно

maker	
A	13
B	14
C	12

```

--16
SELECT DISTINCT p1.model,
                p2.model,
                p1.speed,
                p1.ram
FROM
PC p1
JOIN
PC p2

```

```
ON p1.speed = p2.speed
AND p1.ram = p2.ram
AND p1.model > p2.model;
```

Правильно

model	model	speed	ram
1233	1121	750	128
1233	1232	500	64
1260	1232	500	32

```
--29
SELECT
    i.point,
    i.date,
    i.inc,
    o.out
FROM
    Income_o i
FULL OUTER JOIN
    Outcome_o o
ON i.point = o.point AND i.date = o.date
ORDER BY
    i.point, i.date;
```

Неверно

* Неверное число записей (меньше на 10)

point	date	inc	out
1	2001-03-22 00:00:00.000	15000.0000	NULL
1	2001-03-23 00:00:00.000	15000.0000	NULL
1	2001-03-24 00:00:00.000	3400.0000	3663.0000
1	2001-04-13 00:00:00.000	5000.0000	4490.0000
1	2001-05-11 00:00:00.000	4500.0000	2530.0000
2	2001-03-22 00:00:00.000	10000.0000	1440.0000
2	2001-03-24 00:00:00.000	1500.0000	NULL
3	2001-09-13 00:00:00.000	11500.0000	1500.0000
3	2001-10-02 00:00:00.000	18000.0000	NULL

point	date	inc	out
1	2001-03-14 00:00:00.000	NULL	15348.0000
1	2001-03-22 00:00:00.000	15000.0000	NULL
1	2001-03-23 00:00:00.000	15000.0000	NULL
1	2001-03-24 00:00:00.000	3400.0000	3663.0000
1	2001-03-26 00:00:00.000	NULL	1221.0000
1	2001-03-28 00:00:00.000	NULL	2075.0000
1	2001-03-29 00:00:00.000	NULL	2004.0000
1	2001-04-11 00:00:00.000	NULL	3195.0400
1	2001-04-13 00:00:00.000	5000.0000	4490.0000
1	2001-04-27 00:00:00.000	NULL	3110.0000

--30

SELECT

COALESCE(i.point, o.point) AS point,

COALESCE(i.date, o.date) AS date,

SUM(o.out),

SUM(i.inc)

FROM

Income i

FULL OUTER JOIN

Outcome o ON i.point = o.point AND i.date = o.date

GROUP BY

COALESCE(i.point, o.point), COALESCE(i.date, o.date)

```
ORDER BY  
  point, date;
```

Неверно

* Несовпадение данных (6)

point	date		
1	2001-03-14 00:00:00.000	15348.0000	
1	2001-03-22 00:00:00.000		30000.0000
1	2001-03-23 00:00:00.000		15000.0000
1	2001-03-24 00:00:00.000	14326.0000	14000.0000
1	2001-03-26 00:00:00.000	1221.0000	
1	2001-03-28 00:00:00.000	2075.0000	
1	2001-03-29 00:00:00.000	4010.0000	
1	2001-04-11 00:00:00.000	3195.0400	
1	2001-04-13 00:00:00.000	8980.0000	10000.0000
1	2001-04-27 00:00:00.000	3110.0000	
1	2001-05-11 00:00:00.000	2530.0000	4500.0000
2	2001-03-22 00:00:00.000	2880.0000	20000.0000
2	2001-03-24 00:00:00.000		3000.0000
2	2001-03-29 00:00:00.000	7848.0000	
2	2001-04-02 00:00:00.000	2040.0000	
3	2001-09-13 00:00:00.000	5400.0000	6200.0000
3	2001-09-14 00:00:00.000	1150.0000	

point	date	Outcome	income
1	2001-03-14 00:00:00.000	15348.0000	NULL
1	2001-03-22 00:00:00.000	NULL	30000.0000
1	2001-03-23 00:00:00.000	NULL	15000.0000
1	2001-03-24 00:00:00.000	7163.0000	7000.0000
1	2001-03-26 00:00:00.000	1221.0000	NULL
1	2001-03-28 00:00:00.000	2075.0000	NULL
1	2001-03-29 00:00:00.000	4010.0000	NULL
1	2001-04-11 00:00:00.000	3195.0400	NULL
1	2001-04-13 00:00:00.000	4490.0000	10000.0000
1	2001-04-27 00:00:00.000	3110.0000	NULL
1	2001-05-11 00:00:00.000	2530.0000	4500.0000
2	2001-03-22 00:00:00.000	2880.0000	10000.0000
2	2001-03-24 00:00:00.000	NULL	3000.0000
2	2001-03-29 00:00:00.000	7848.0000	NULL

2	2001-04-02 00:00:00.000	2040.0000	NULL
3	2001-09-13 00:00:00.000	2700.0000	3100.0000
3	2001-09-14 00:00:00.000	1150.0000	NULL

--34

```
SELECT name
FROM classes,ships
WHERE launched >=1922
      AND type='bb'
      AND displacement>35000
      AND ships.class = classes.class
```

Правильно

name

Iowa

Missouri

Musashi

New Jersey

North Carolina

South Dakota

Washington

Wisconsin

Yamato