

1. Напишіть SQL команду, за допомогою якої можна:

- вибрати всі стовпчики (За допомогою wildcard “*”) з таблиці **products**;

```
56 FROM `goit_hw_03`.`suppliers`;  
57 • USE goit_hw_03;  
58 • SELECT *  
59 FROM products;  
60  
61  
62
```

	id	name	supplier_id	category_id	unit	price
▶	1	Chais	1	1	10 boxes x 20 bags	18
	2	Chang	1	1	24 - 12 oz bottles	19
	3	Aniseed Syrup	1	2	12 - 550 ml bottles	10
	4	Chef Antons Cajun Seasoning	2	2	48 - 6 oz jars	22
	5	Chef Antons Gumbo Mix	2	2	36 boxes	21.35
	6	Grandmas Boysenberry Spread	3	2	12 - 8 oz jars	25
	7	Uncle Bobs Organic Dried Pears	3	7	12 - 1 lb pkgs.	30
	8	Northwoods Cranberry Sauce	3	2	12 - 12 oz jars	40
	9	Mishi Kobe Niku	4	6	18 - 500 g pkgs.	97
	10	Ikura	4	8	12 - 200 ml jars	31
	11	Queso Cabrales	5	4	1 kg pkq.	21

products 41 x

Output

Action Output

#	Time	Action	Message
✓ 103	16:13:58	SELECT `suppliers`.`id`, `suppliers`.`name`, `suppliers`.`contact`, `suppliers`.`address`, `s...	29 row(s) returned
✓ 104	16:13:58	USE goit_hw_03	0 row(s) affected
✓ 105	16:13:58	SELECT * FROM products LIMIT 0, 1000	77 row(s) returned
✓ 106	17:05:08	SELECT * FROM products LIMIT 0, 1000	77 row(s) returned

- вибрати тільки стовпчики name, phone з таблиці **shippers**, та перевірте правильність її виконання в MySQL Workbench.

```
60 • SELECT name, phone  
61 FROM shippers;  
62
```

	name	phone
▶	Speedy Express	(503) 555-9831
	United Package	(503) 555-3199
	Federal Shipping	(503) 555-9931

customers 43 employees 44 order_details 45 orders 46 products 47 shippers 48 suppliers 49 products 50

Output

Action Output

#	Time	Action	Message
✓ 114	17:08:03	SELECT `suppliers`.`id`, `suppliers`.`name`, `suppliers`.`contact`, `suppliers`.`address`, `s...	29 row(s) returned
✓ 115	17:08:03	USE goit_hw_03	0 row(s) affected
✓ 116	17:08:03	SELECT * FROM products LIMIT 0, 1000	77 row(s) returned
✓ 117	17:08:03	SELECT name, phone FROM shippers LIMIT 0, 1000	3 row(s) returned

2. Напишіть SQL команду, за допомогою якої можна знайти середнє, максимальне та мінімальне значення стовпчика *price* таблиці *products*, та перевірте правильність її виконання в MySQL Workbench*.*

```

62 • SELECT
63     AVG(price) AS avg_price,
64     MAX(price) AS max_price,
65     MIN(price) AS min_price
66 FROM products;
67
68

```

avg_price	max_price	min_price
28.866363636363637	263.5	2.5

employees 54 order_details 55 orders 56 products 57 shippers 58 suppliers 59 products 60 shippers 61

Output

Action Output

#	Time	Action	Message
✓ 126	17:56:38	USE goit_hw_03	0 row(s) affected
✓ 127	17:56:38	SELECT * FROM products LIMIT 0, 1000	77 row(s) returned
✓ 128	17:56:38	SELECT name, phone FROM shippers LIMIT 0, 1000	3 row(s) returned
✓ 129	17:56:38	SELECT AVG(price) AS avg_price, MAX(price) AS max_price, MIN(price) AS min_price F...	1 row(s) returned ✓

3. Напишіть SQL команду, за допомогою якої можна обрати унікальні значення колонок *category_id* та *price* таблиці *products*.
Оберіть порядок виведення на екран за спаданням значення *price* та виберіть тільки 10 рядків.
Перевірте правильність виконання команди в MySQL Workbench.

```

67 • SELECT DISTINCT category_id, price
68 FROM products
69 ORDER BY price DESC
70 LIMIT 10;
71
72

```

category_id	price
1	263.5
6	123.79
6	97
3	81
8	62.5
4	55
7	53
3	49.3
1	46
7	45.6

order_details 66 orders 67 products 68 shippers 69 suppliers 70 products 71 shippers 72 Result 73 pr

Output

Action Output

#	Time	Action	Message
✓ 139	18:00:12	SELECT * FROM products LIMIT 0, 1000	77 row(s) returned
✓ 140	18:00:12	SELECT name, phone FROM shippers LIMIT 0, 1000	3 row(s) returned
✓ 141	18:00:12	SELECT AVG(price) AS avg_price, MAX(price) AS max_price, MIN(price) AS min_price F...	1 row(s) returned
✓ 142	18:00:12	SELECT DISTINCT category_id, price FROM products ORDER BY price DESC LIMIT 10	10 row(s) returned ✓

4. Напишіть SQL команду, за допомогою якої можна знайти кількість продуктів (рядків), які знаходяться в цінових межах від 20 до 100, та перевірте правильність її виконання в MySQL Workbench.

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```

71 • SELECT COUNT(*) AS product_count
72 FROM products
73 WHERE price BETWEEN 20 AND 100;
74
75

```

The 'Result Grid' tab is active, displaying a single row with the value 36 under the column header 'product_count'.

The 'Output' tab is also visible, showing a log of actions. The last action (156) is the executed query, which returned 1 row(s).

#	Time	Action	Message
153	18:03:40	SELECT name, phone FROM shippers LIMIT 0, 1000	3 row(s) returned
154	18:03:40	SELECT AVG(price) AS avg_price, MAX(price) AS max_price, MIN(price) AS min_price F...	1 row(s) returned
155	18:03:40	SELECT DISTINCT category_id, price FROM products ORDER BY price DESC LIMIT 10	10 row(s) returned
156	18:03:40	SELECT COUNT(*) AS product_count FROM products WHERE price BETWEEN 20 AND 100 L...	1 row(s) returned

5. Напишіть SQL команду, за допомогою якої можна знайти кількість продуктів (рядків) та середню ціну (*price*) у кожного постачальника (*supplier_id*), та перевірте правильність її виконання в MySQL Workbench.

The screenshot shows the MySQL Workbench interface. The SQL editor contains the following query:

```

74 • SELECT
75     supplier_id,
76     COUNT(*) AS product_count,
77     AVG(price) AS avg_price
78 FROM products
79 GROUP BY supplier_id;
80
81

```

The 'Result Grid' tab is active, displaying a table with three columns: 'supplier_id', 'product_count', and 'avg_price'. The table contains 11 rows of data.

supplier_id	product_count	avg_price
1	3	15.666666666666666
2	4	20.35
3	3	31.666666666666668
4	3	46
5	2	29.5
6	3	14.916666666666666
7	5	35.57
8	4	28.175
9	2	15
10	1	4.5
11	3	29.709999999999997

The 'Output' tab is also visible, showing a log of actions. The last action (171) is the executed query, which returned 29 row(s).

#	Time	Action	Message
168	18:06:18	SELECT AVG(price) AS avg_price, MAX(price) AS max_price, MIN(price) AS min_price F...	1 row(s) returned
169	18:06:18	SELECT DISTINCT category_id, price FROM products ORDER BY price DESC LIMIT 10	10 row(s) returned
170	18:06:18	SELECT COUNT(*) AS product_count FROM products WHERE price BETWEEN 20 AND 100 L...	1 row(s) returned
171	18:06:18	SELECT supplier_id, COUNT(*) AS product_count, AVG(price) AS avg_price FROM prod...	29 row(s) returned