

System information as of понеділок, 11 грудня 2023 06:54:57 +0000

System load:	0.80126953125	Processes:	110
Usage of /:	69.7% of 11.21GB	Users logged in:	0
Memory usage:	12%	IPv4 address for docker0:	172.17.0.1
Swap usage:	0%	IPv4 address for enp0s3:	10.0.2.15

Expanded Security Maintenance for Applications is not enabled.

51 оновлення можна застосувати негайно.

Щоб переглянути список додаткових оновлень, віддайте команду `apt list --upgradable`

Enable ESM Apps to receive additional future security updates.

See <https://ubuntu.com/esm> or run: `sudo pro status`

Last login: Sun Dec 10 19:53:21 UTC 2023 on tty1

c2202@c2202:~\$ sudo docker run -d --name container1 -e MYSQL_ROOT_PASSWORD=password -p 3306:3306 mysql:latest

[sudo] password for c2202:

b4d192fd1de44ca571de715ddc3c129e7607693fda53590bed423ed5e500dc

c2202@c2202:~\$ sudo docker exec -it container1 mysql -uroot -p

Enter password:

Welcome to the MySQL monitor. Commands end with ; or \g.

Your MySQL connection id is 8

Server version: 8.2.0 MySQL Community Server - GPL

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Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> `CREATE DATABASE University;`

Query OK, 1 row affected (0.00 sec)

mysql> `USE University;`

Database changed

mysql> `CREATE TABLE Students (`

→ `id INT AUTO_INCREMENT PRIMARY KEY,`

→ `name VARCHAR(255),`

→ `course INT,`

→ `GPA DECIMAL(3,2)`

→ `);`

Query OK, 0 rows affected (0.01 sec)

mysql>

```

-> );
Query OK, 0 rows affected (0.01 sec)

mysql> INSERT INTO STUDENTS (name, course, GPA) VALUES
-> ('Ivanov Ivan', 1, 2.2),
-> ('Tarasov Taras', 2, 3.4),
-> ('Dmytrov Dmytro', 3, 4.2),
-> ('Romanov Roman', 1, 4.4),
-> ('Vasyliiev Vasyli',
-> , 4, 4);
ERROR 1146 (42S02): Table 'University.STUDENTS' doesn't exist
mysql> INSERT INTO Students (name, course, GPA) VALUES ('Ivanov Ivan', 1, 2.2), ('Tarasov Taras', 2,
3.4), ('Dmytrov Dmytro', 3, 4.2), ('Romanov Roman', 1, 4.4), ('Vasyliiev Vasyli' , 4, 4);
Query OK, 5 rows affected (0.01 sec)
Records: 5  Duplicates: 0  Warnings: 0

mysql> SELECT * FROM Students;
+----+-----+-----+-----+
| id | name           | course | GPA   |
+----+-----+-----+-----+
| 1  | Ivanov Ivan    | 1      | 2.20  |
| 2  | Tarasov Taras  | 2      | 3.40  |
| 3  | Dmytrov Dmytro | 3      | 4.20  |
| 4  | Romanov Roman  | 1      | 4.40  |
| 5  | Vasyliiev Vasyli | 4      | 4.00  |
+----+-----+-----+-----+
5 rows in set (0.00 sec)

mysql> SELECT * FROM Students WHERE course = 2;
+----+-----+-----+-----+
| id | name           | course | GPA   |
+----+-----+-----+-----+
| 2  | Tarasov Taras  | 2      | 3.40  |
+----+-----+-----+-----+
1 row in set (0.00 sec)

mysql>

```

1	Ivanov Ivan	1	2.20
2	Tarasov Taras	2	3.40
3	Dmytrov Dmytro	3	4.20
4	Romanov Roman	1	4.40
5	Vasyliiev Vasyi	4	4.00

5 rows in set (0.00 sec)

mysql> SELECT * FROM Students WHERE course = 2;

id	name	course	GPA
2	Tarasov Taras	2	3.40

1 row in set (0.00 sec)

mysql> UPDATE Students SET GPA = GPA + 0.5;

Query OK, 5 rows affected (0.00 sec)

Rows matched: 5 Changed: 5 Warnings: 0

mysql> UPDATE Students SET name = 'Ivan Petrov' WHERE course = 3;

Query OK, 1 row affected (0.01 sec)

Rows matched: 1 Changed: 1 Warnings: 0

mysql> SELECT * FROM Students;

id	name	course	GPA
1	Ivanov Ivan	1	2.70
2	Tarasov Taras	2	3.90
3	Ivan Petrov	3	4.70
4	Romanov Roman	1	4.90
5	Vasyliiev Vasyi	4	4.50

5 rows in set (0.00 sec)

mysql> _

```
mysql> SELECT * FROM Students;
```

id	name	course	GPA
1	Ivanov Ivan	1	2.70
2	Tarasov Taras	2	3.90
3	Ivan Petrov	3	4.70
4	Romanov Roman	1	4.90
5	Vasyliiev Vasyi	4	4.50

5 rows in set (0.00 sec)

```
mysql> START TRANSACTION;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> DELETE FROM Students WHERE GPA < 3.0;
```

Query OK, 1 row affected (0.00 sec)

```
mysql> INSERT INTO Students ( name, course, GPA) VALUES ('Oleksiy Kovalenko', 1, 4.2);
```

Query OK, 1 row affected (0.00 sec)

```
mysql> COMMIT;
```

Query OK, 0 rows affected (0.00 sec)

```
mysql> SELECT * FROM Students;
```

id	name	course	GPA
2	Tarasov Taras	2	3.90
3	Ivan Petrov	3	4.70
4	Romanov Roman	1	4.90
5	Vasyliiev Vasyi	4	4.50
6	Oleksiy Kovalenko	1	4.20

5 rows in set (0.00 sec)

```
mysql> _
```

```
mysql> SELECT * FROM Students;
```

id	name	course	GPA
2	Tarasov Taras	2	3.90
3	Ivan Petrov	3	4.70
4	Romanov Roman	1	4.90
5	Vasyliiev Vasyi	4	4.50
6	Oleksiy Kovalenko	1	4.20

5 rows in set (0.00 sec)

```
mysql> SELECT * FROM Students WHERE course = 1 AND GPA > 0;
```

id	name	course	GPA
4	Romanov Roman	1	4.90
6	Oleksiy Kovalenko	1	4.20

2 rows in set (0.00 sec)

```
mysql> SELECR course, COUNT(*) AS amount_students FROM Students GROUP BY course;
```

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'SELECR course, COUNT(*) AS amount_students FROM Students GROUP BY course' at line 1

```
mysql> SELECT course, COUNT(*) AS amount_students FROM Students GROUP BY course;
```

course	amount_students
2	1
3	1
1	2
4	1

4 rows in set (0.00 sec)

```
mysql> _
```

```
+-----+-----+-----+
5 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM Students WHERE course = 1 AND GPA > 0;
```

```
+-----+-----+-----+
| id | name                | course | GPA |
+-----+-----+-----+
|  4 | Romanov Roman      |      1 | 4.90 |
|  6 | Oleksiy Kovalenko  |      1 | 4.20 |
+-----+-----+-----+
```

```
2 rows in set (0.00 sec)
```

```
mysql> SELECR course, COUNT(*) AS amount_students FROM Students GROUP BY course;
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```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
MySQL server version for the right syntax to use near 'SELECR course, COUNT(*) AS amount_students FR
OM Students GROUP BY course' at line 1
```

```
<mysql> SELECT course, COUNT(*) AS amount_students FROM Students GROUP BY course;
```

```
+-----+-----+
| course | amount_students |
+-----+-----+
|      2 |                1 |
|      3 |                1 |
|      1 |                2 |
|      4 |                1 |
+-----+-----+
```

```
4 rows in set (0.00 sec)
```

```
mysql> DROP TABLE IF EXISTS Students;
```

```
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> DROP DATABASE IF EXIST University;
```

```
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your
MySQL server version for the right syntax to use near 'EXIST University' at line 1
```

```
mysql> DROP DATABASE IF EXISTS University;
```

```
Query OK, 0 rows affected (0.00 sec)
```

```
mysql>
```