

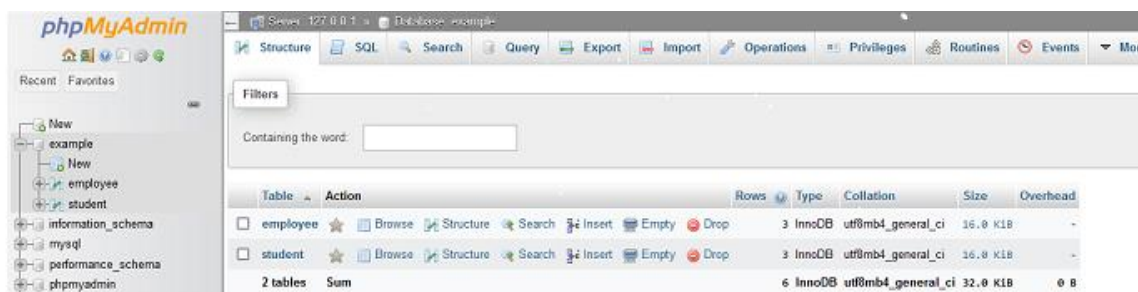
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# Cyber Forensics and Laws

Write a program to take backup of a MySQL database.

Database:

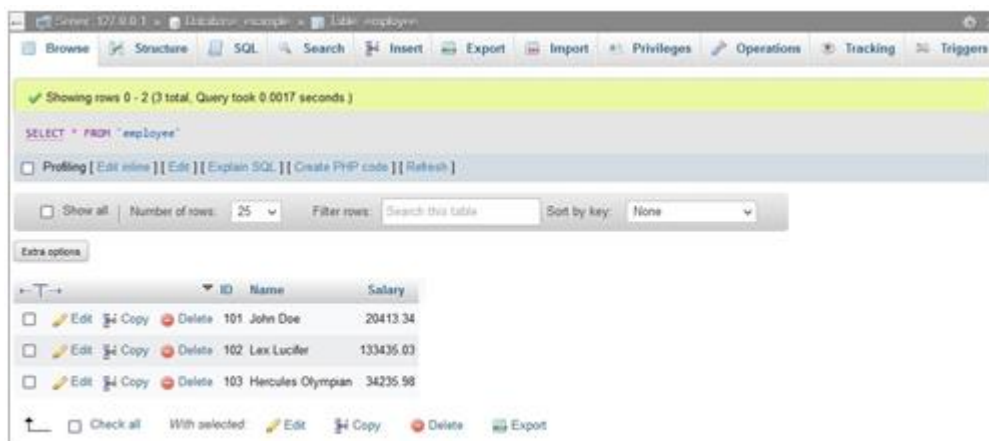


The screenshot shows the phpMyAdmin interface for a database named 'example'. The left sidebar lists the database and its tables: 'employee', 'student', 'information\_schema', 'mysql', 'performance\_schema', and 'phpmyadmin'. The main panel displays the 'Structure' view for the 'example' database. It shows two tables: 'employee' and 'student'. Both tables have 3 rows, are of type 'InnoDB', and use the 'utf8mb4\_general\_ci' collation. The 'employee' table has a size of 16.0 K and the 'student' table has a size of 16.0 K. The summary row shows 2 tables, 6 rows, and a total size of 32.0 K.

Table	Action	Rows	Type	Collation	Size	Overhead
<input type="checkbox"/> employee		3	InnoDB	utf8mb4_general_ci	16.0 K	-
<input type="checkbox"/> student		3	InnoDB	utf8mb4_general_ci	16.0 K	-
2 tables	Sum	6	InnoDB	utf8mb4_general_ci	32.0 K	0 B

Table :

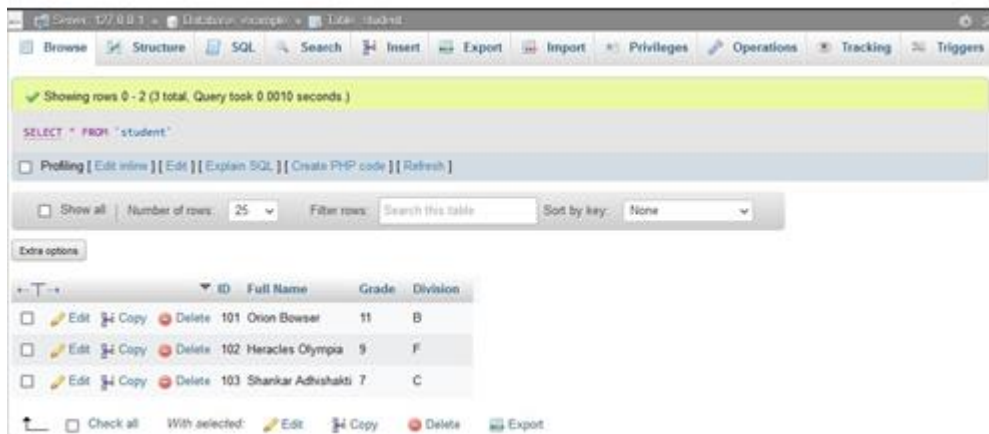
Employee :



The screenshot shows the phpMyAdmin interface for the 'employee' table. The main panel displays the 'Table: employee' view. It shows the SQL query 'SELECT \* FROM `employee`' and the results of the query. The results are displayed in a table with columns 'ID', 'Name', and 'Salary'. There are three rows of data: John Doe with salary 20413.34, Lex Lucifer with salary 133435.03, and Hercules Olympian with salary 34235.98. The interface also shows options for 'Show all', 'Number of rows', 'Filter rows', and 'Sort by key'.

ID	Name	Salary
101	John Doe	20413.34
102	Lex Lucifer	133435.03
103	Hercules Olympian	34235.98

Student :



### Code ::

```
import mysql.connector as connector
```

```
from sys import exit
```

```
if __name__ == "__main__":
```

```
    hostname = input("Enter host name [localhost]>")
    if hostname == "" or hostname == "localhost":
        username = input("Enter your username > ")
```

```
    if username == "":
```

```
        exit("Please input the correct username")
```

```
    print("If password is not set, just press [Enter] on the following prompt")
```

```
    password = input("Enter your password > ")
```

```
    database_name = input("Enter the name of the database you want to backup > ")
```

```
    if database_name == "":
```

```
        exit("Please input the correct database name")
```

```
    print("Trying connection...")
```

```
    try:
```

```
        connection = connector.connect(host = hostname, user =
```

```
        username, password = password, database = database_name)
        cursor = connection.cursor()
```

```
        print("Connection successful")
```

```
        cursor.execute("show tables;")
        table_names = list(str) = []
```

```
        for record in cursor.fetchall():
            table_names.append(record[0])
```

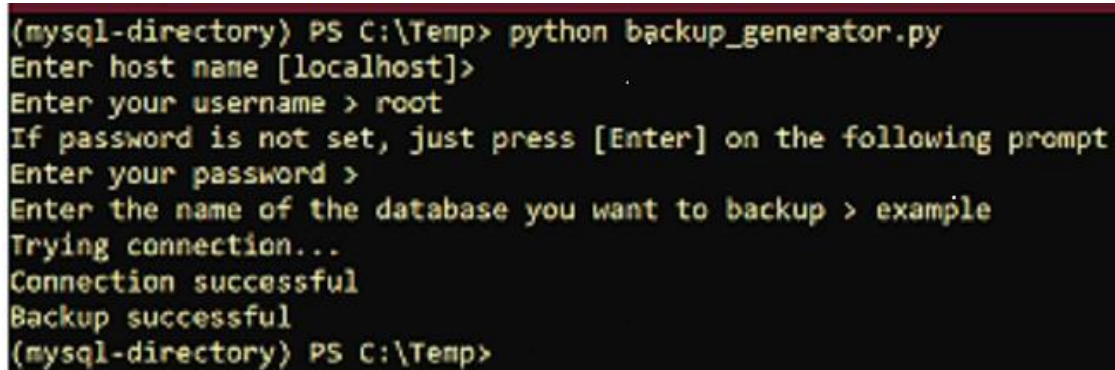
```
backup_database_name = database_name + "_backup" cursor.execute(f"create database  
{backup_database_name};")  
cursor.execute(f"use {backup_database_name};")
```

```
for table_name in table_names:  
    cursor.execute(f"create table {table_name} select * from {database_name}.{table_name}")  
print("Backup successful")
```

except:

```
exit("Connection unsuccessful")
```

**Output ::**



```
(mysql-directory) PS C:\Temp> python backup_generator.py  
Enter host name [localhost]>  
Enter your username > root  
If password is not set, just press [Enter] on the following prompt  
Enter your password >  
Enter the name of the database you want to backup > example  
Trying connection...  
Connection successful  
Backup successful  
(mysql-directory) PS C:\Temp>
```

After Backup ::

**Employee Table :**

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 2 (3 total, Query took 0.0009 seconds)

```
SELECT * FROM "employee"
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

ID	Name	Salary
101	John Doe	25413.34
102	Lex Lucifer	133435.83
103	Hercules Olympian	34235.98

☐ Show all | Number of rows: 25 | Filter rows:

## Student Table

Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows 0 - 2 (3 total, Query took 0.0009 seconds)

```
SELECT * FROM "student"
```

☐ Profiling [\[ Edit inline \]](#) [\[ Edit \]](#) [\[ Explain SQL \]](#) [\[ Create PHP code \]](#) [\[ Refresh \]](#)

☐ Show all | Number of rows: 25 | Filter rows:

Extra options

ID	Full Name	Grade	Division
101	Orion Bowser	11	B
102	Heracles Olympia	9	F
103	Shankar Adishakti	7	C

☐ Show all | Number of rows: 25 | Filter rows: