

## Cyber Forensics and Law

**Aim:** Write a program for creating backup file of Mysql database.

### **Source Code:**

```
public class Backup
{
    public void backupDB(String path)
    {
        String executeCmd="C:/xampp/mysql/bin/mysqldump.exe -u root -B
students -r"+path;
        System.out.println(executeCmd);
        Process runtimeProcess;
        try
        {
            runtimeProcess = Runtime.getRuntime().exec(new
String[]{"cmd.exe","/c",executeCmd});
            int processComplete = runtimeProcess.waitFor();
            System.out.println(processComplete);

            if(processComplete==0)
            {
                System.out.println("Backup Created Successfully!");
            }
            else
            {
                System.out.println("Couldn't Create the backup!");
            }
        }
    }
}
```

```

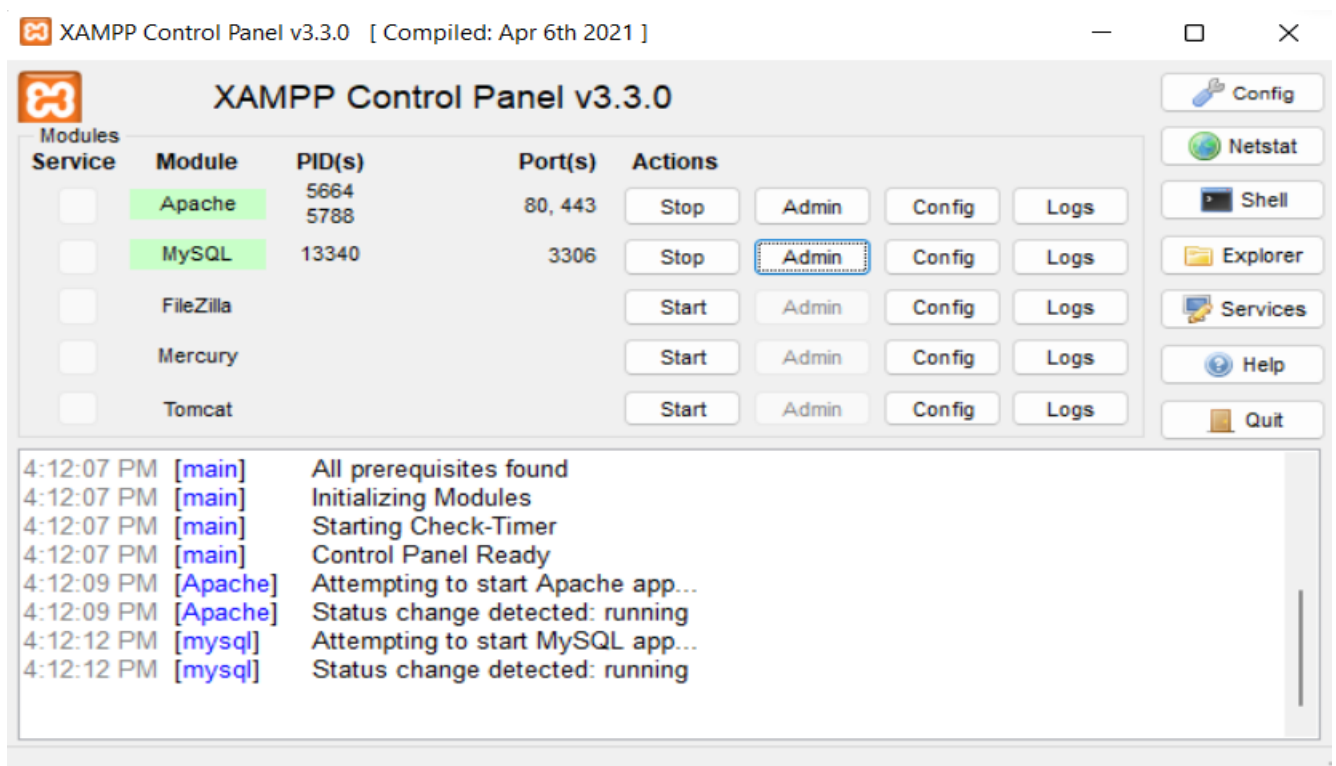
    }
    catch(Exception ex)
    {
        ex.printStackTrace();
    }
}

public static void main(String args[])
{
    new Backup().backupDB("E:/MScPractical/Sem3/CFL/MiniProject/db1.sql");
}
}

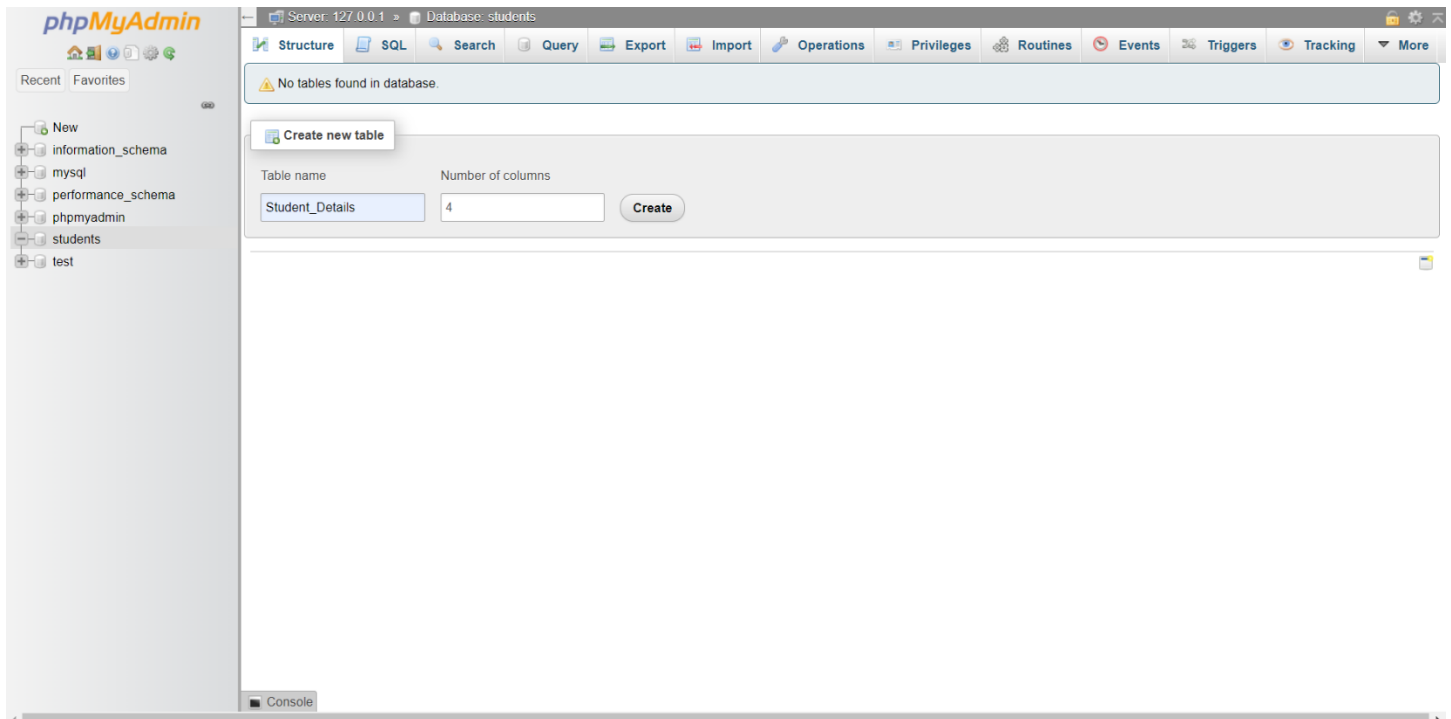
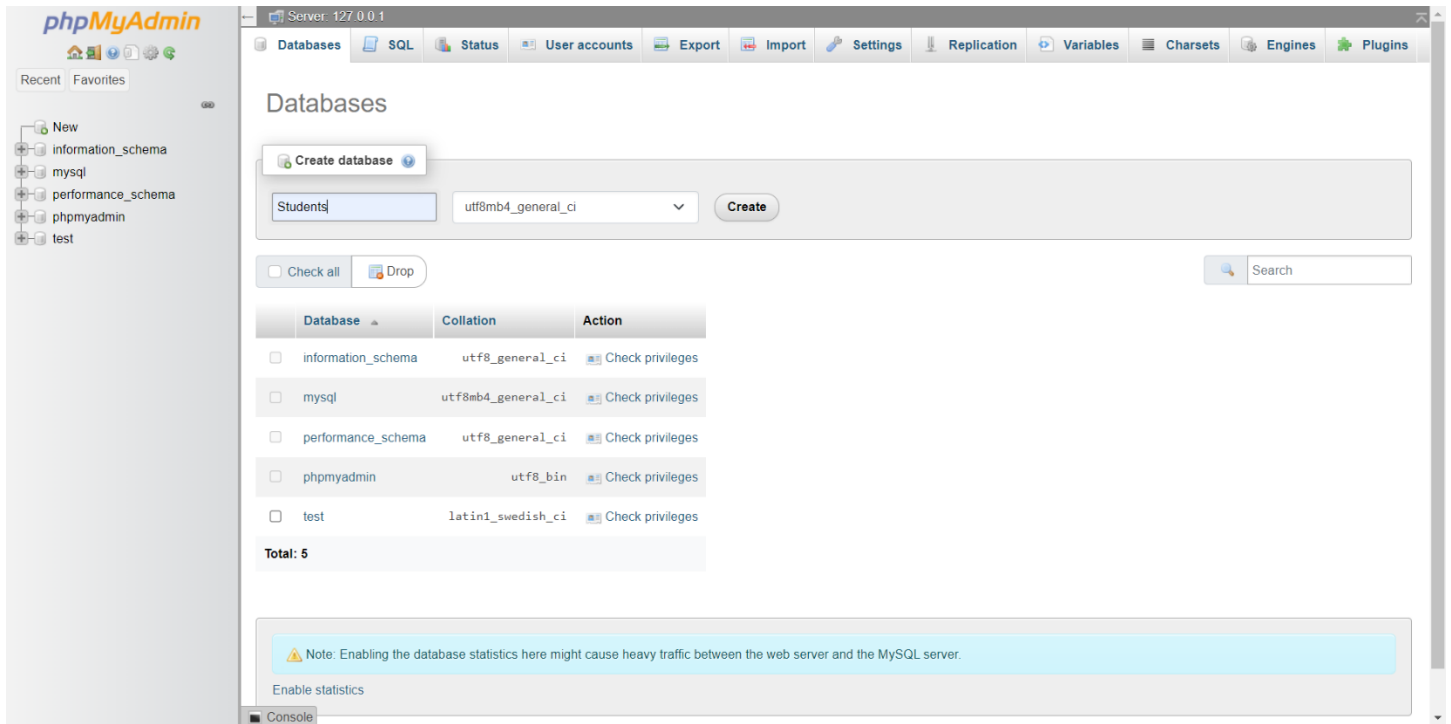
```

### Steps:

1. Download and install Xamp server and open it's Control Panel.



2. Start Apache and MySQL and open Admin for MySQL. Create a database and a table with some data in it for backup.



phpMyAdmin

Server: 127.0.0.1 » Database: students

Structure SQL Search Query Export Import Operations Privileges Routines Events Triggers Tracking More

Table name: Student\_Details Add 1 column(s) Go

Structure

Name	Type	Length/Values	Default	Collation	Attributes	Null	Index	A_J	Co
<input type="text" value="Id"/>	INT		None			<input type="checkbox"/>	---	<input type="checkbox"/>	
<small>Click from Central Columns</small>									
<input type="text" value="Name"/>	VARCHAR	256	None			<input type="checkbox"/>	---	<input type="checkbox"/>	
<small>Click from Central Columns</small>									
<input type="text" value="Contact_No"/>	VARCHAR	256	None			<input type="checkbox"/>	---	<input type="checkbox"/>	
<small>Click from Central Columns</small>									
<input type="text" value="Address"/>	VARCHAR	256	None			<input type="checkbox"/>	---	<input type="checkbox"/>	
<small>Click from Central Columns</small>									

Table comments: Collation: Storage Engine: InnoDB

PARTITION definition:

Console: ( Expression or column list )

phpMyAdmin

Server: 127.0.0.1 » Database: students » Table: student\_details

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

Column	Type	Function	Null	Value
Id	int(11)			101
Name	varchar(256)			Mitesh Konkar
Contact_No	varchar(256)			7595562347
Address	varchar(256)			Bhandup

Console

phpMyAdmin

Server: 127.0.0.1 » Database: students » Table: student\_details

Browse Structure SQL Search Insert Export Import Privileges Operations Tracking Triggers

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

Showing rows 0 - 4 (5 total, Query took 0.0006 seconds.)

SELECT \* FROM `student\_details`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

Id	Name	Contact_No	Address
101	Mitesh Konkar	7595562347	Bhandup
102	Anurag Rai	8564235789	Bhiwandi
103	Siddhesh Vengurlekar	9452367815	Vikhroli
104	Ashwini Karanjule	7856321956	Ambernath
105	Medini Wakankar	8463298514	Kalwa

Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Bookmark this SQL query

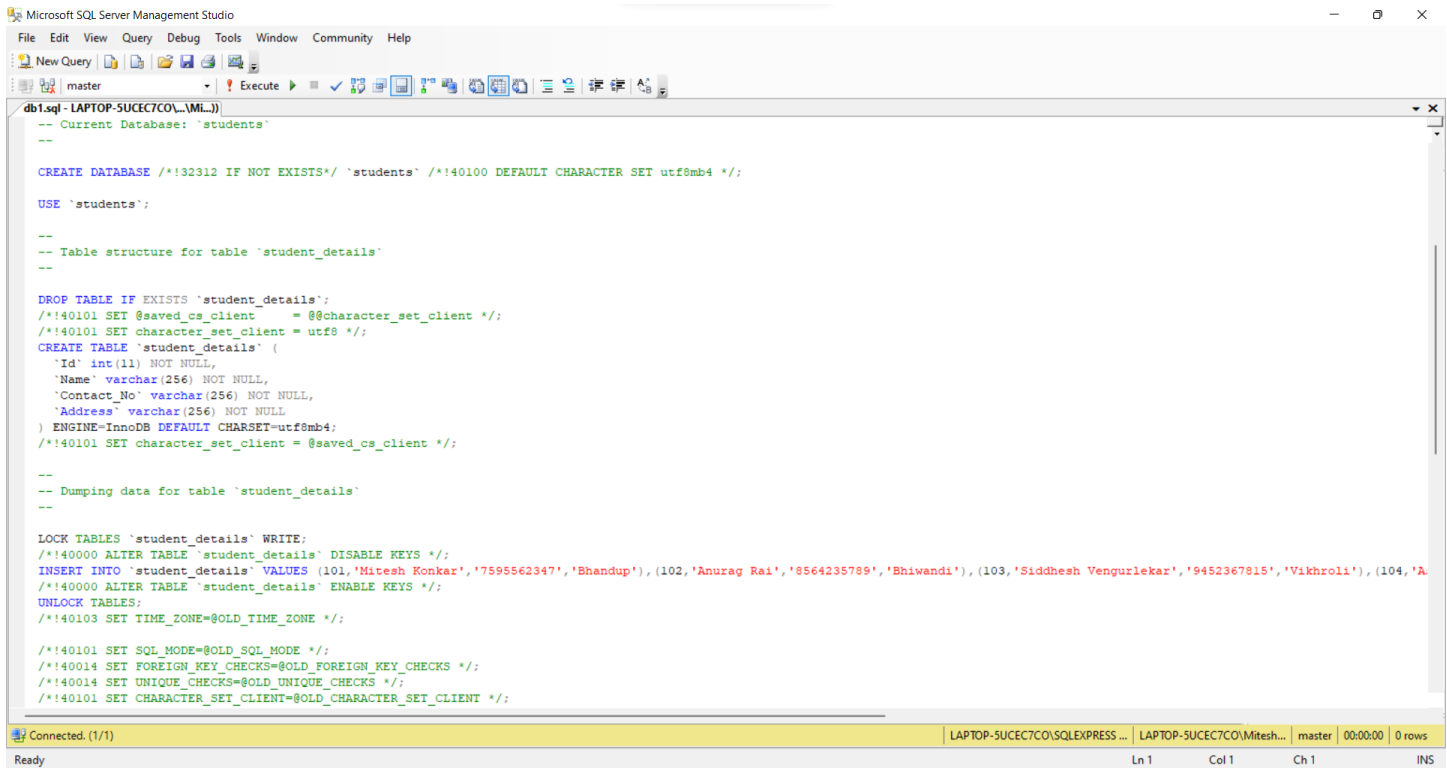
Let every user access this bookmark

Console

3. Use the above Source Code and create a backup of database.

```
<terminated> Backup [Java Application] C:\Users\mites\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_14.0.2.v20200815-0932\jre\bin\javaw.exe (Sep 28, 2022, 4:28:27 PM - 4:28:27 PM)
C:\xampp\mysql\bin\mysqldump.exe -u root -B students -rE:/MScPractical/Sem3/CFL/MiniProject/db1.sql
0
Backup Created Successfully!
```

#### 4. The backed-up database will look like this.



```
db1.sql - LAPTOP-SUCEC7CO\SQL...
-- Current Database: 'students'
--

CREATE DATABASE /*!32312 IF NOT EXISTS*/ 'students' /*!40100 DEFAULT CHARACTER SET utf8mb4 */;

USE 'students';

--
-- Table structure for table 'student_details'
--

DROP TABLE IF EXISTS `student_details`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!40101 SET character_set_client = utf8 */;
CREATE TABLE `student_details` (
  `Id` int(11) NOT NULL,
  `Name` varchar(256) NOT NULL,
  `Contact_No` varchar(256) NOT NULL,
  `Address` varchar(256) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table 'student_details'
--

LOCK TABLES `student_details` WRITE;
/*!40000 ALTER TABLE `student_details` DISABLE KEYS */;
INSERT INTO `student_details` VALUES (101,'Mitesh Konkar','7595562347','Bhandup'), (102,'Anurag Rai','8564235789','Bhiwandi'), (103,'Siddhesh Vengurlekar','9452367815','Vikhroli'), (104,'A
/*!40000 ALTER TABLE `student_details` ENABLE KEYS */;
UNLOCK TABLES;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
```

Connected. (1/1)

	LAPTOP-SUCEC7CO\SQLXPRESS ...	LAPTOP-SUCEC7CO\Mitesh...	master	00:00:00	0 rows
Ready	Ln 1	Col 1	Ch 1		INS