

Task 4: Database Backup and Recovery
Name: Siddhi Ramesh Vishe
Tool: MySQL via CMD (Command Prompt)

```
C:\Users\Siddhi>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 184
Server version: 8.0.42 MySQL Community Server - GPL
```

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

```
mysql> CREATE DATABASE library;
Query OK, 1 row affected (0.04 sec)
```

```
mysql> USE library;
Database changed
```

```
mysql> CREATE TABLE books (
->     id INT AUTO_INCREMENT PRIMARY KEY,
->     title VARCHAR(255),
->     author VARCHAR(255),
->     year_published INT,
->     genre VARCHAR(100)
-> );
Query OK, 0 rows affected (0.07 sec)
```

```
mysql> INSERT INTO books (title, author, year_published, genre) VALUES
-> ('1984', 'George Orwell', 1949, 'Dystopian'),
-> ('To Kill a Mockingbird', 'Harper Lee', 1960, 'Classic'),
-> ('The Great Gatsby', 'F. Scott Fitzgerald', 1925, 'Classic'),
-> ('The Catcher in the Rye', 'J.D. Salinger', 1951, 'Classic'),
-> ('Brave New World', 'Aldous Huxley', 1932, 'Dystopian');
Query OK, 5 rows affected (0.04 sec)
Records: 5  Duplicates: 0  Warnings: 0
```

```
mysql> SELECT * FROM books;
```

id	title	author	year_published
1	1984	George Orwell	1949
2	To Kill a Mockingbird	Harper Lee	1960
3	The Great Gatsby	F. Scott Fitzgerald	1925
4	The Catcher in the Rye	J.D. Salinger	1951

```
| 5 | Brave New World | Aldous Huxley | 1932 |
Dystopian |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
-----+
5 rows in set (0.00 sec)
```

```
mysql> EXIT;
Bye
```

```
C:\Users\Siddhi>mysqldump -u root -p library > library_backup.sql
Enter password: *****
```

```
C:\Users\Siddhi>type library_backup.sql
-- MySQL dump 10.13  Distrib 8.0.42, for Win64 (x86_64)
--
-- Host: localhost    Database: library
--
-- Server version      8.0.42

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!50503 SET NAMES utf8mb4 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS,
FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO'
*/;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `books`
--

DROP TABLE IF EXISTS `books`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8mb4 */;
CREATE TABLE `books` (
  `id` int NOT NULL AUTO_INCREMENT,
  `title` varchar(255) DEFAULT NULL,
  `author` varchar(255) DEFAULT NULL,
  `year_published` int DEFAULT NULL,
  `genre` varchar(100) DEFAULT NULL,
  PRIMARY KEY (`id`)
) ENGINE=InnoDB AUTO_INCREMENT=6 DEFAULT CHARSET=utf8mb4
COLLATE=utf8mb4_0900_ai_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `books`
--

LOCK TABLES `books` WRITE;
/*!40000 ALTER TABLE `books` DISABLE KEYS */;
INSERT INTO `books` VALUES (1,'1984','George
Orwell',1949,'Dystopian'),(2,'To Kill a Mockingbird','Harper
```

```

Lee',1960,'Classic'),(3,'The Great Gatsby','F. Scott
Fitzgerald',1925,'Classic'),(4,'The Catcher in the Rye','J.D.
Salinger',1951,'Classic'),(5,'Brave New World','Aldous
Huxley',1932,'Dystopian');
/*!40000 ALTER TABLE `books` 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 */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2025-08-09 22:37:28

C:\Users\Siddhi>mysql -u root -p
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Type 'help;' or '\h' for help. Type '\c' to clear the current input
statement.

mysql> DROP DATABASE library;
Query OK, 1 row affected (0.06 sec)

mysql> EXIT;
Bye

C:\Users\Siddhi>mysql -u root -p -e "CREATE DATABASE library"
Enter password: *****

C:\Users\Siddhi>mysql -u root -p library < library_backup.sql
Enter password: *****

C:\Users\Siddhi>mysql -u root -p
Enter password: *****
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 189
Server version: 8.0.42 MySQL Community Server - GPL

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owners.

```

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

```
mysql> USE library;
```

Database changed

```
mysql> SELECT * FROM books;
```

```
+-----+-----+-----+-----+-----+
-----+
| id | title                                | author                | year_published |
genre |
+-----+-----+-----+-----+-----+
-----+
| 1 | 1984                                | George Orwell        | 1949 |
Dystopian |
| 2 | To Kill a Mockingbird              | Harper Lee           | 1960 |
Classic   |
| 3 | The Great Gatsby                   | F. Scott Fitzgerald  | 1925 |
Classic   |
| 4 | The Catcher in the Rye             | J.D. Salinger        | 1951 |
Classic   |
| 5 | Brave New World                    | Aldous Huxley        | 1932 |
Dystopian |
+-----+-----+-----+-----+-----+
-----+
5 rows in set (0.00 sec)
```

```
mysql>
```

8. Conclusion

End with something like:

✅ The backup and restore process was completed successfully using MySQL in CMD. The database was recovered and data verified using SELECT. Task finished with no errors.