**LAB – 1**

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Sem: VII

Roll No: CE046

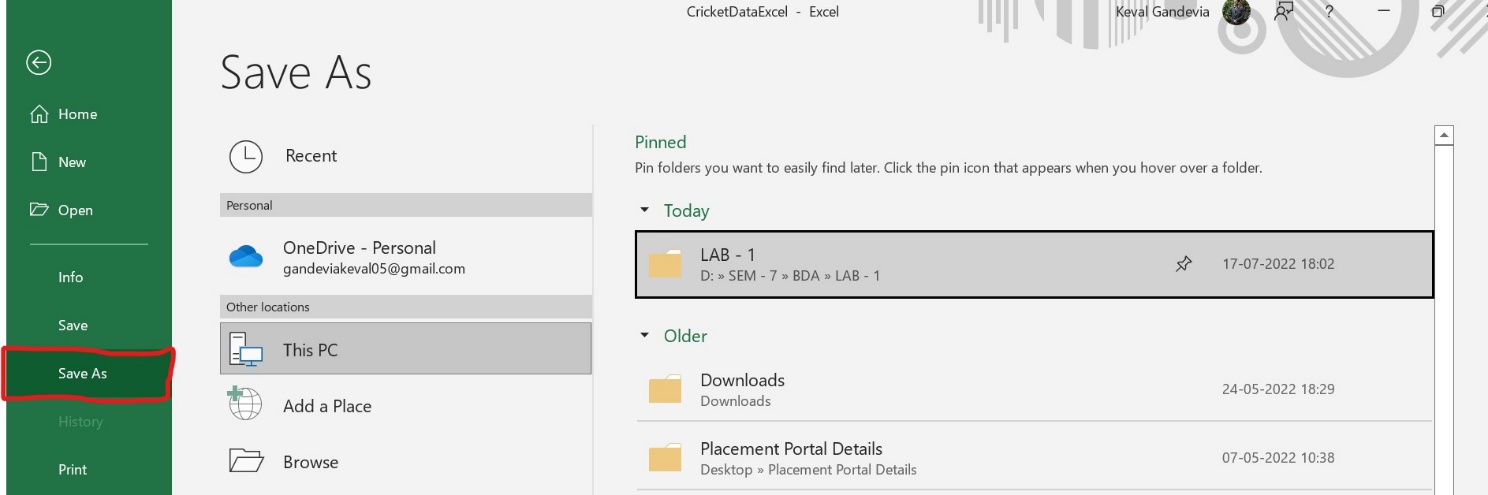
Subject: Big Data and Analytics

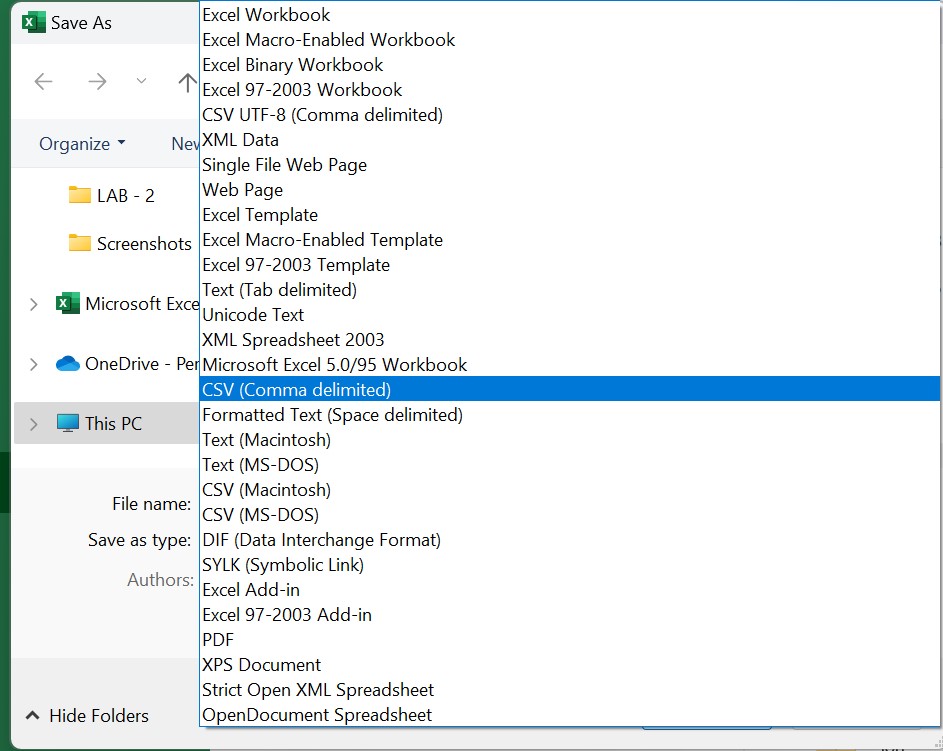
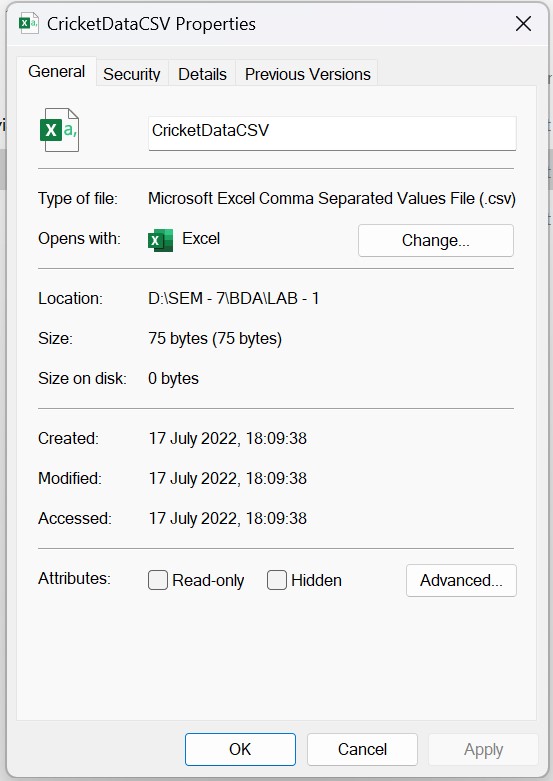
**Aim:** Recording types of data and various file formats. Identifying data sources. Handling traditionally to start with a small scale.

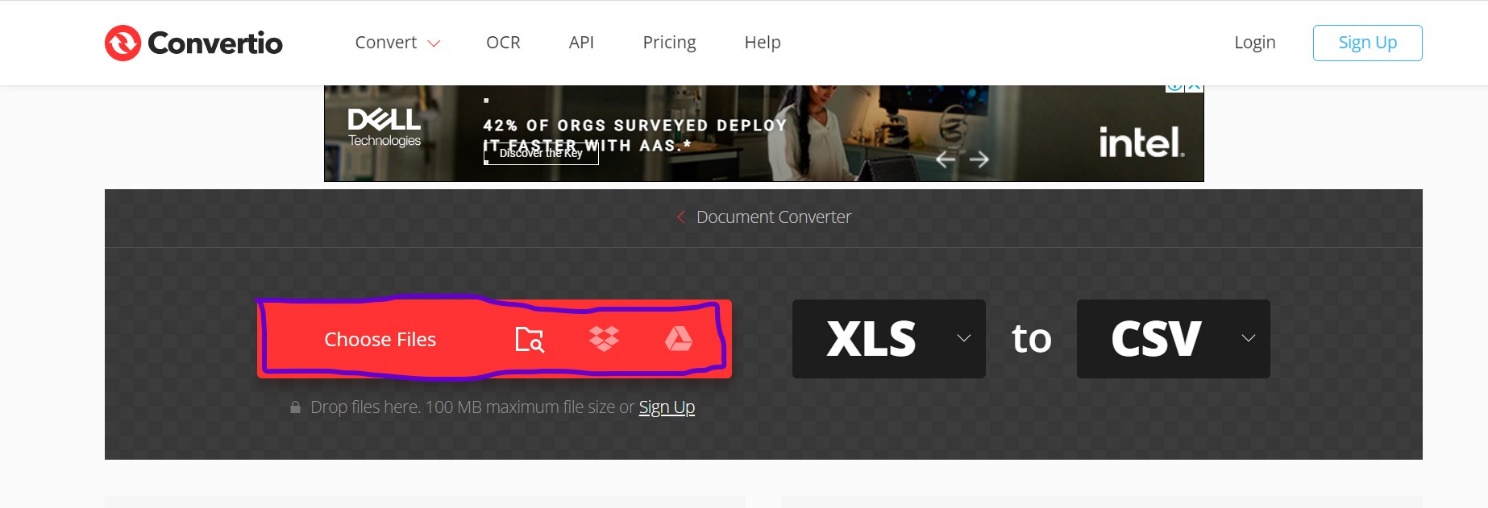
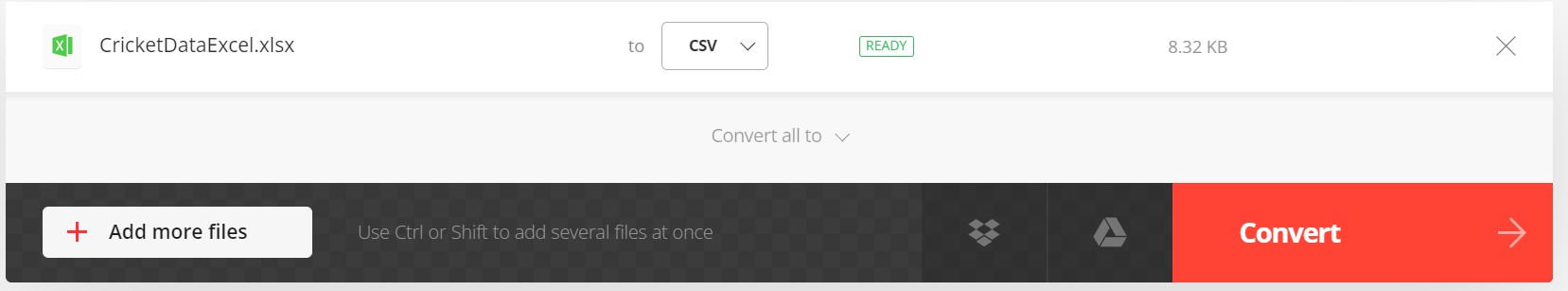
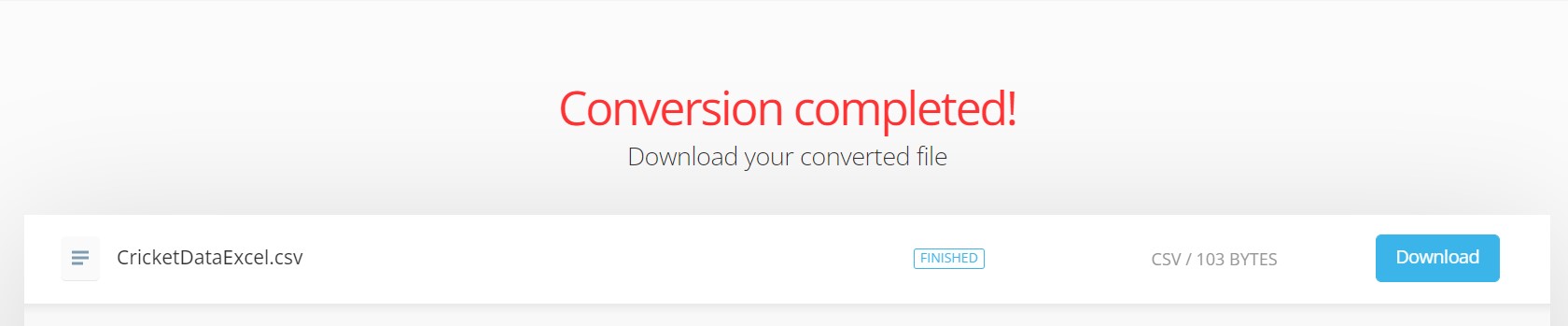
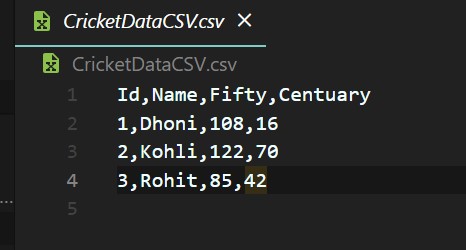
**Q. 1: Given the spreadsheet file convert it into a csv.**

* There are many ways to convert the spreadsheet file into csv.

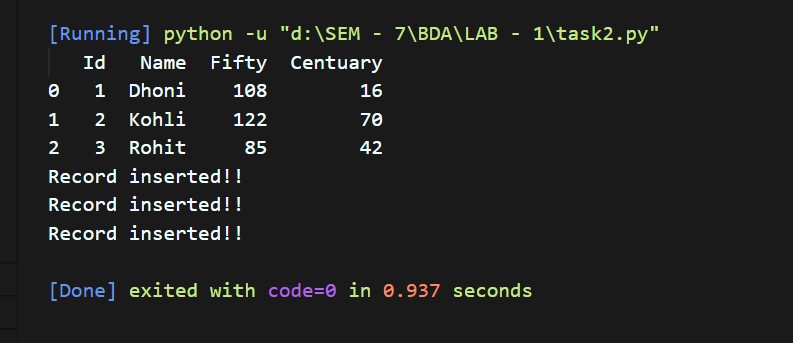
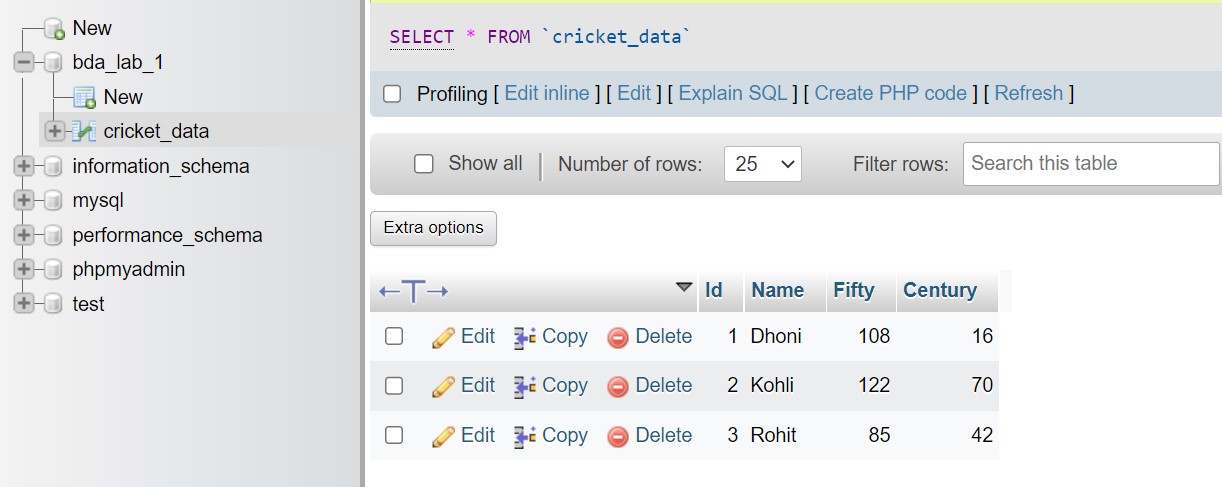
1. **Save As spreadsheet file with .csv extension.**





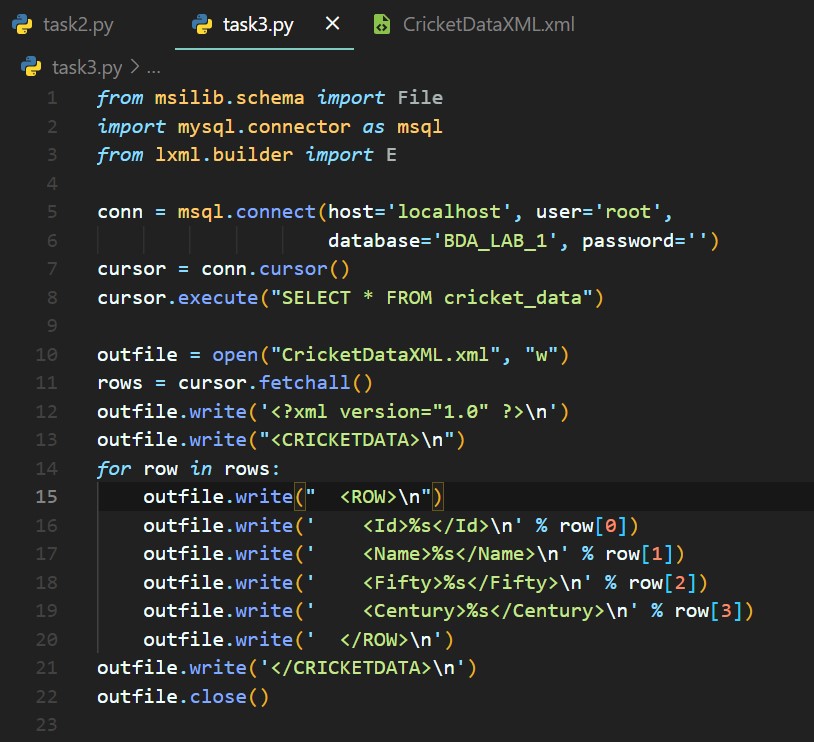
1. **Use online converter.**

**Q. 2: Import csv into MySQL database table.**

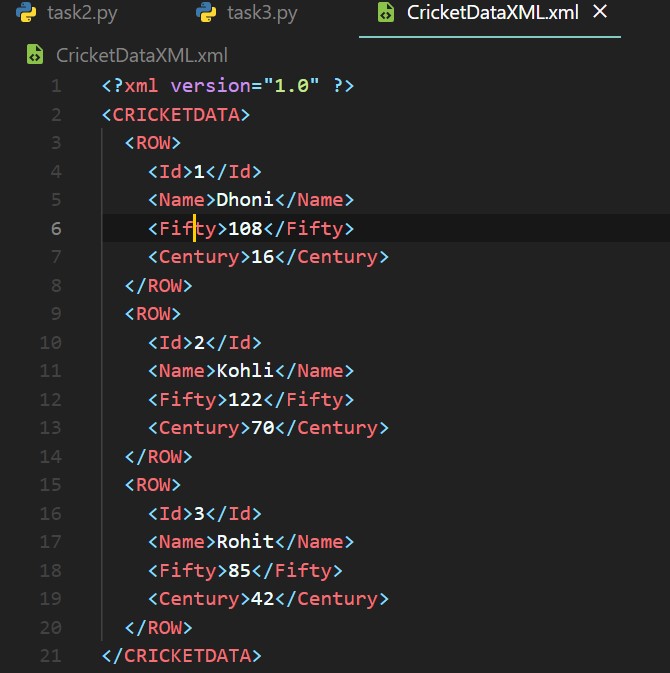
* **Code:**
* **Output:**

**Q. 3: Write a computer program to read records from database and generate data file.**

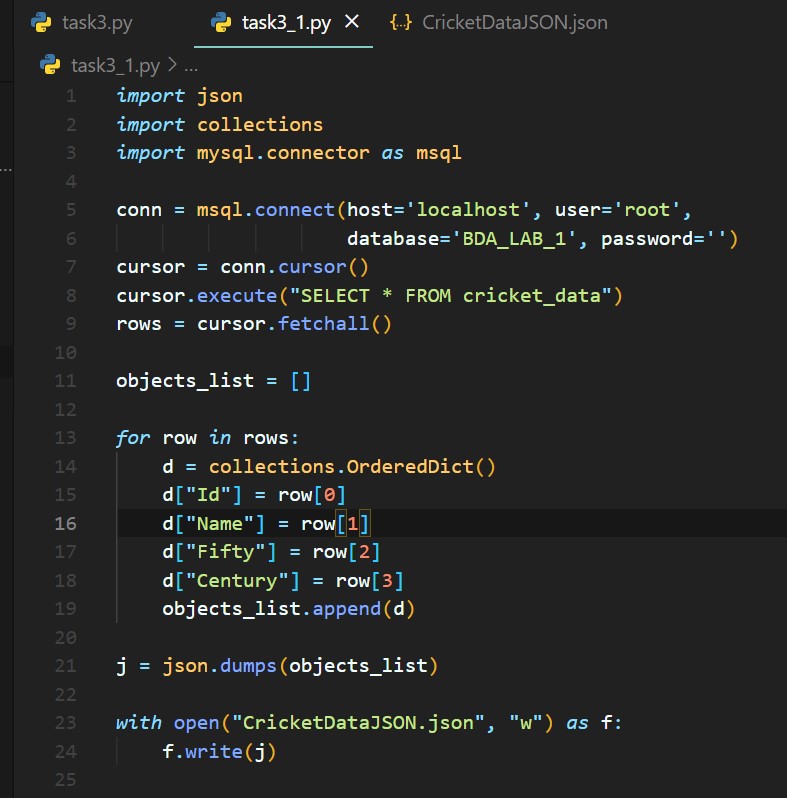
1. **XML**
   * **Code:**



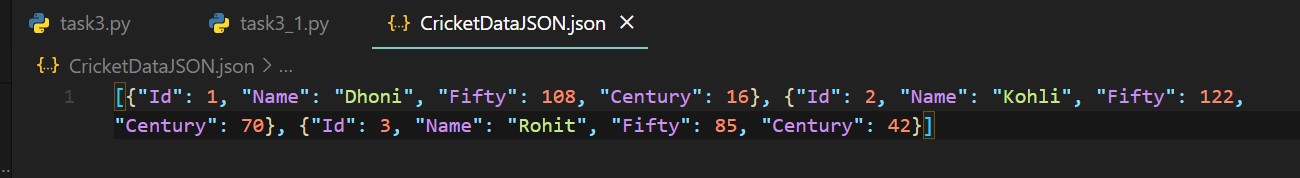
* + **Output:**



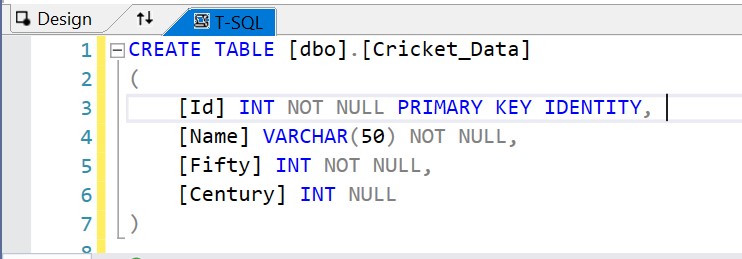
1. **JSON**
   * **Code:**

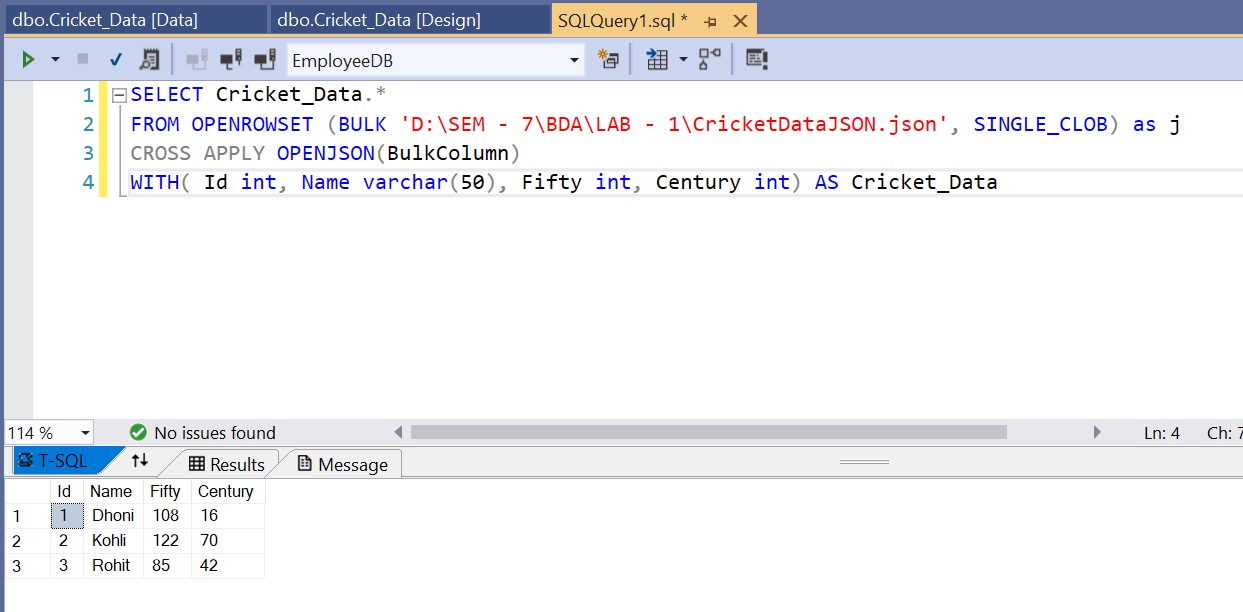


* + **Output:**



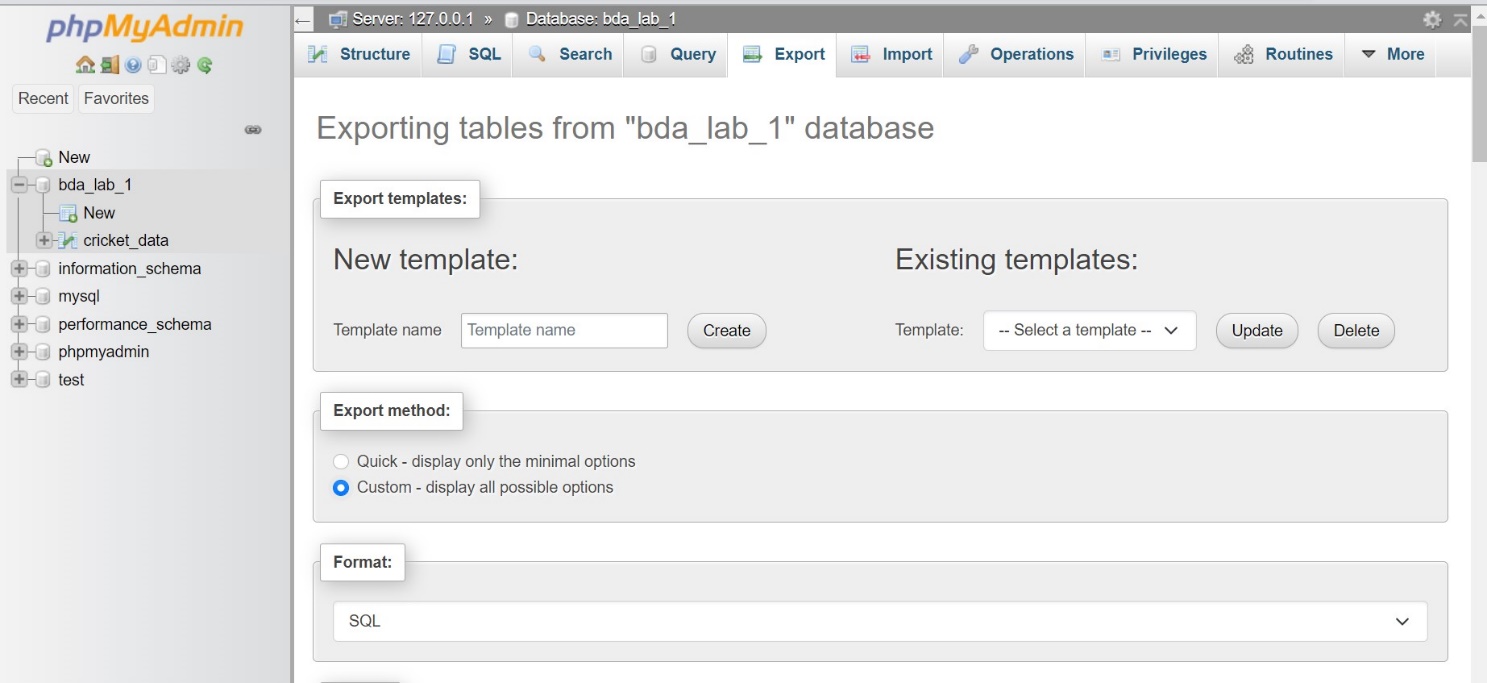
**Q. 4: Import XML/JSON file into another database/table.**

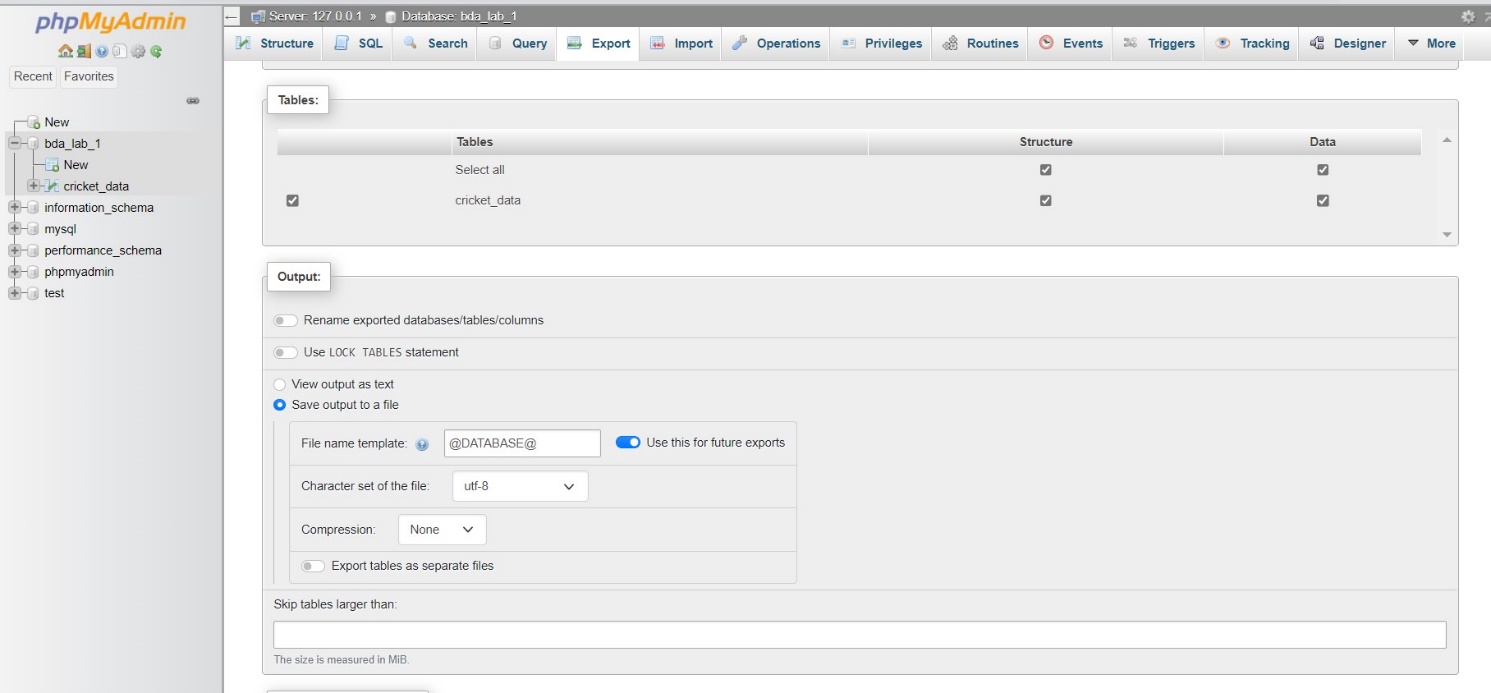
* Creating table in SQL Server.
* Query to convert csv to database table.

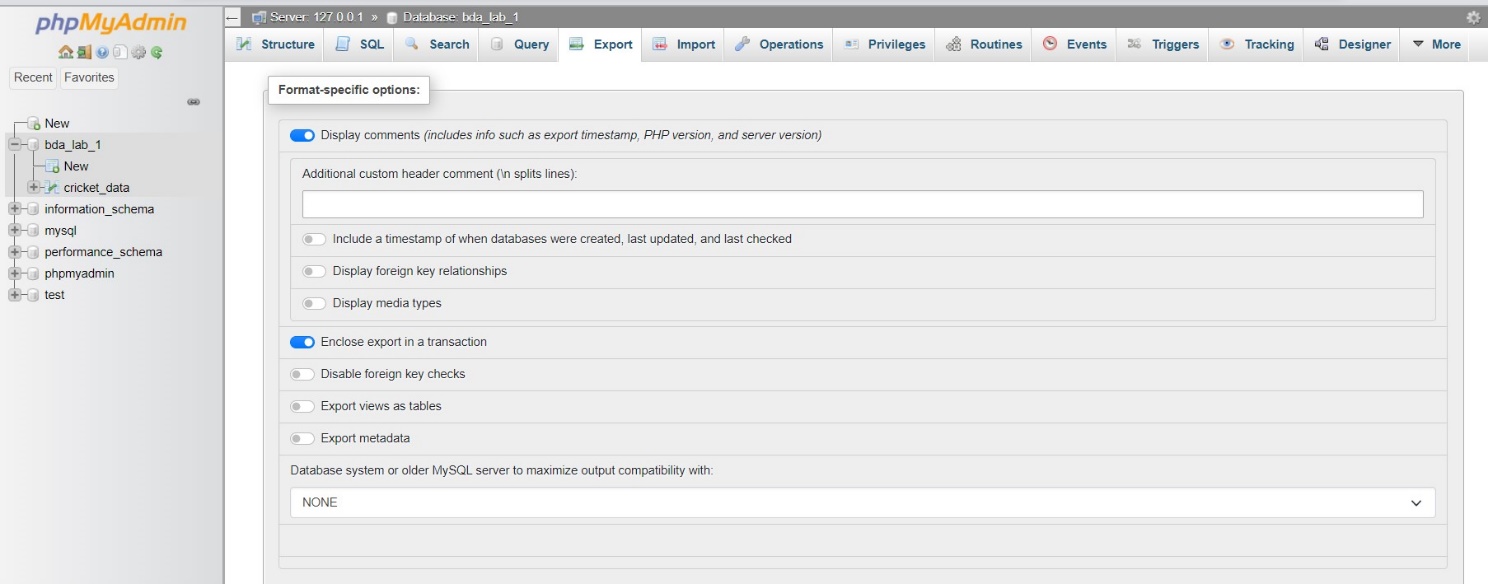
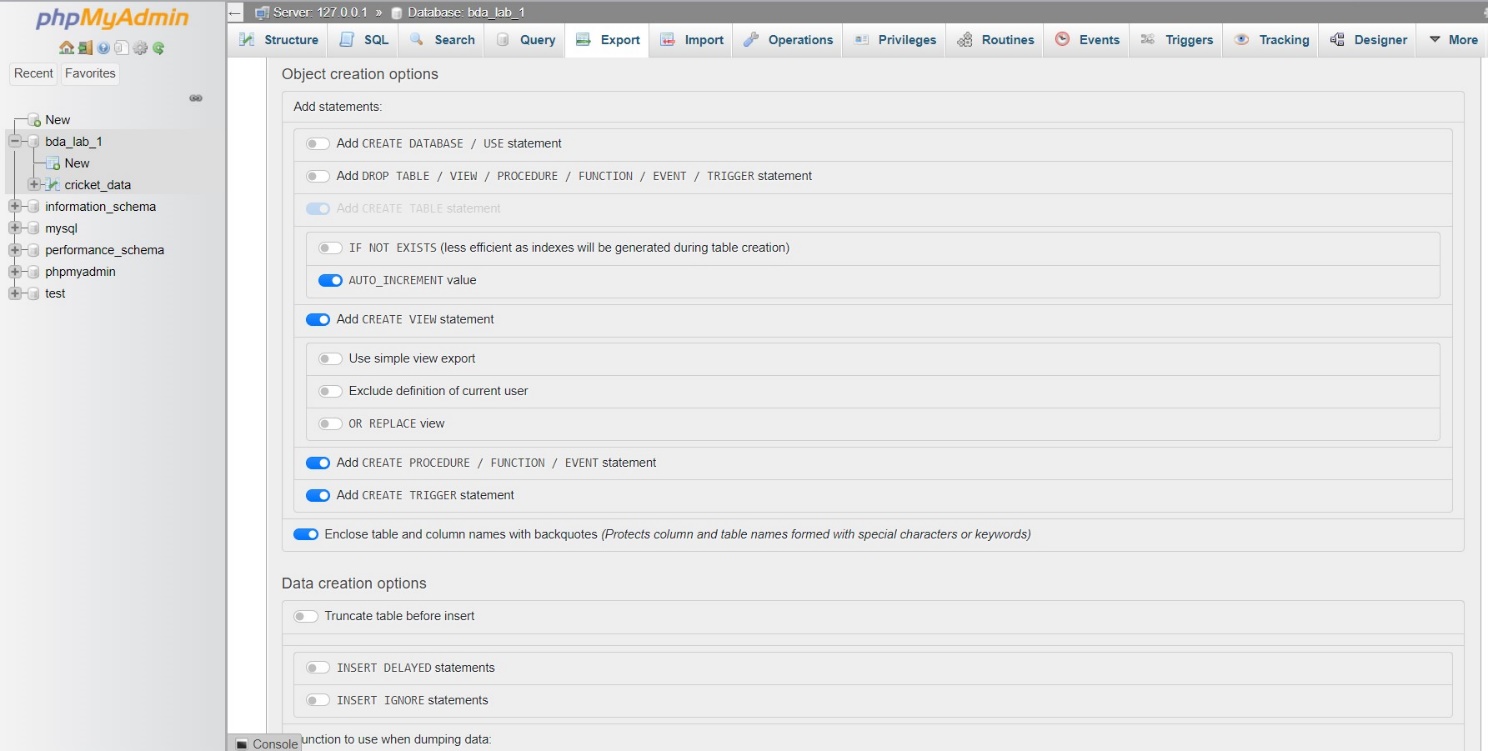


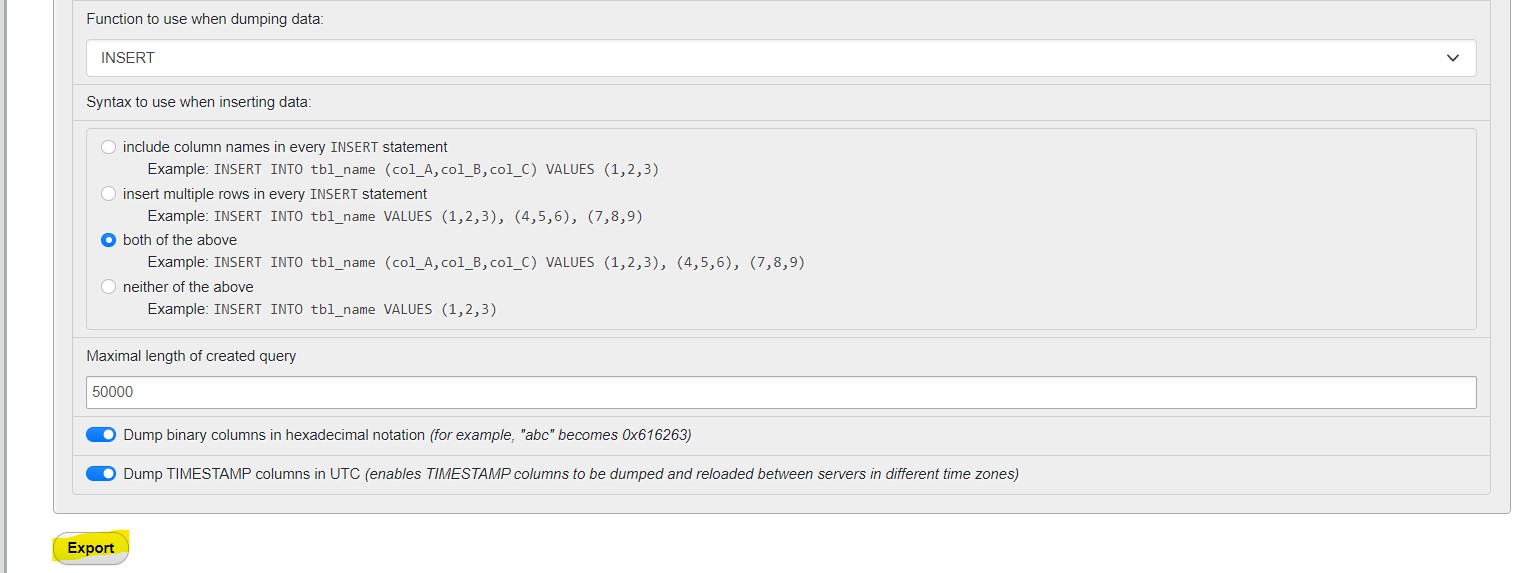
**Q. 5: Export database dump for data migration/archival.**

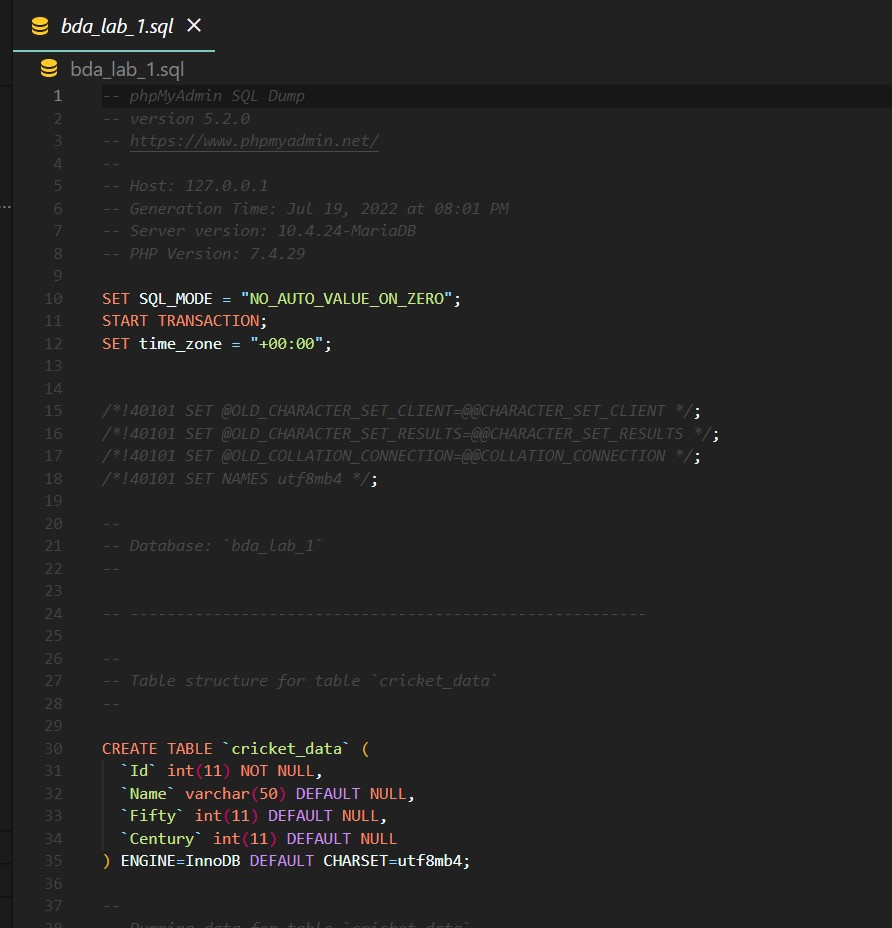
* We can easily export any SQL for of database using phpMyAdmin window of Xampp.

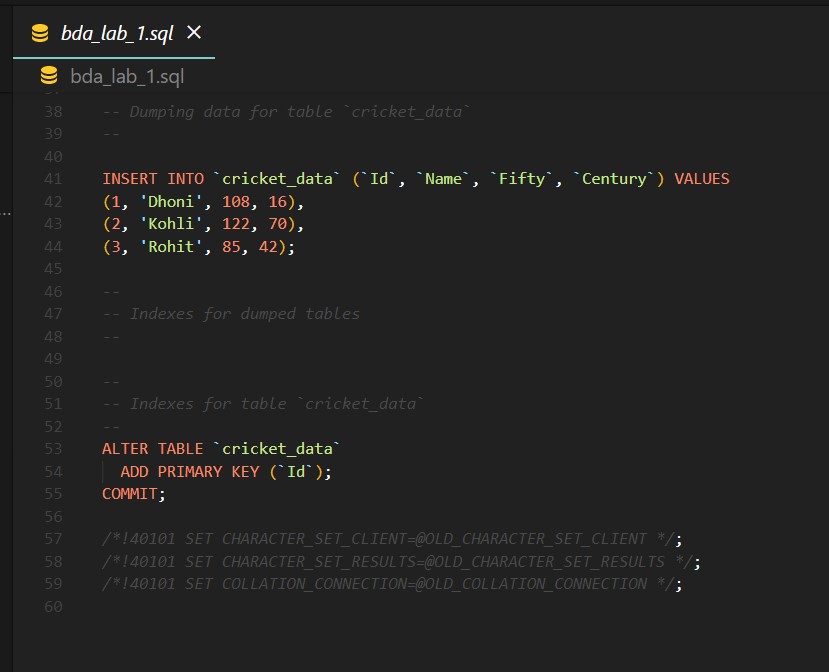




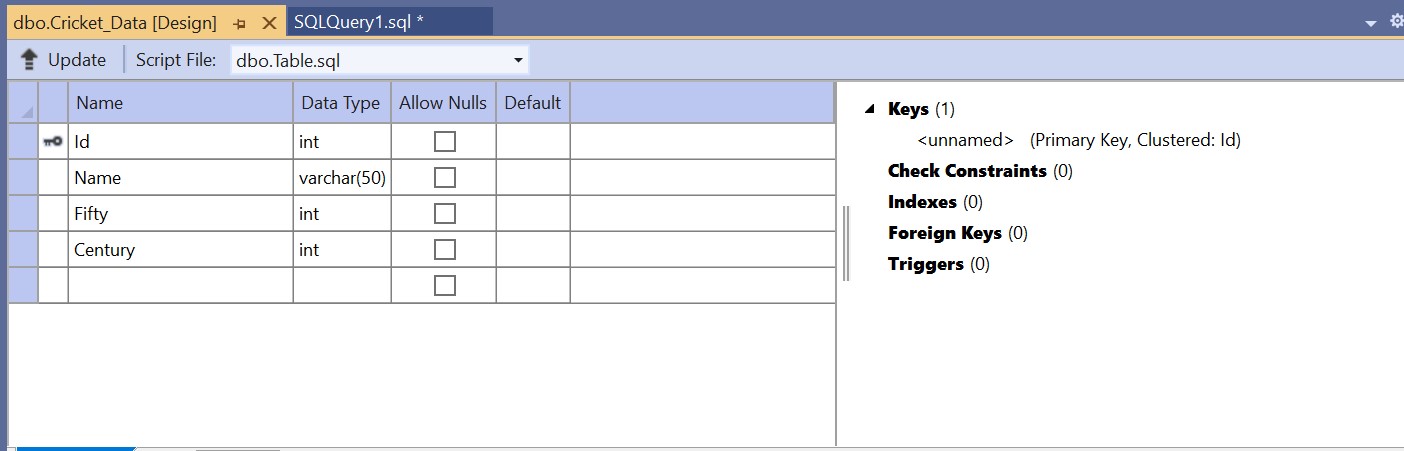


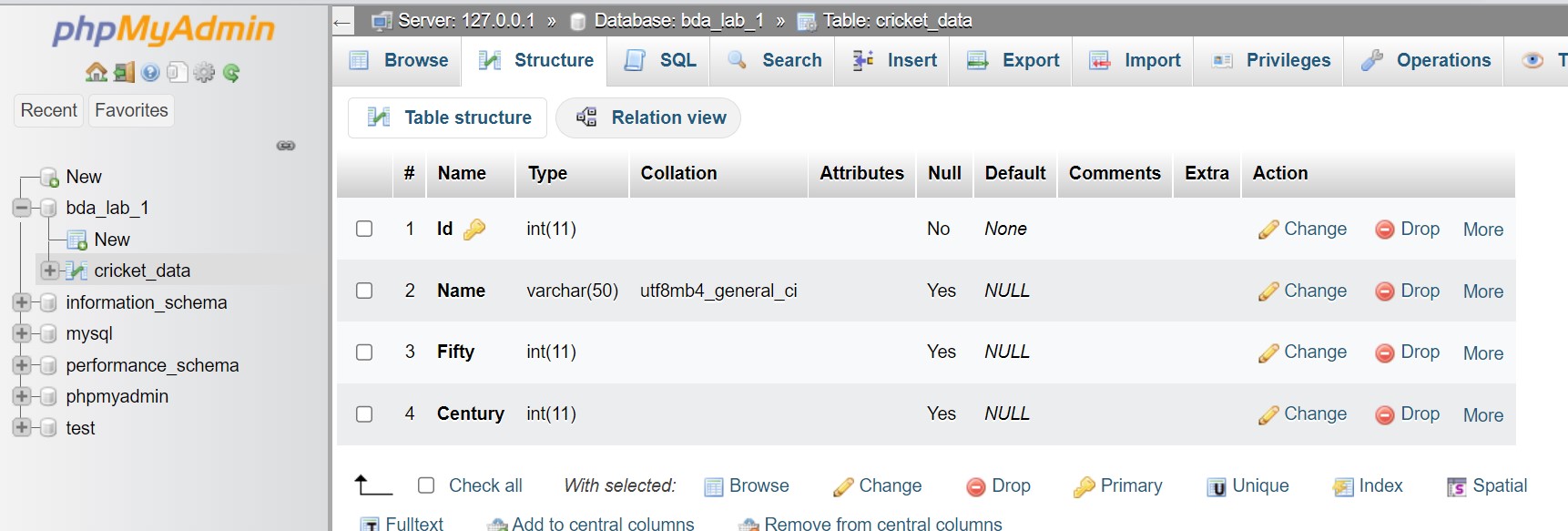


* **Output file:**

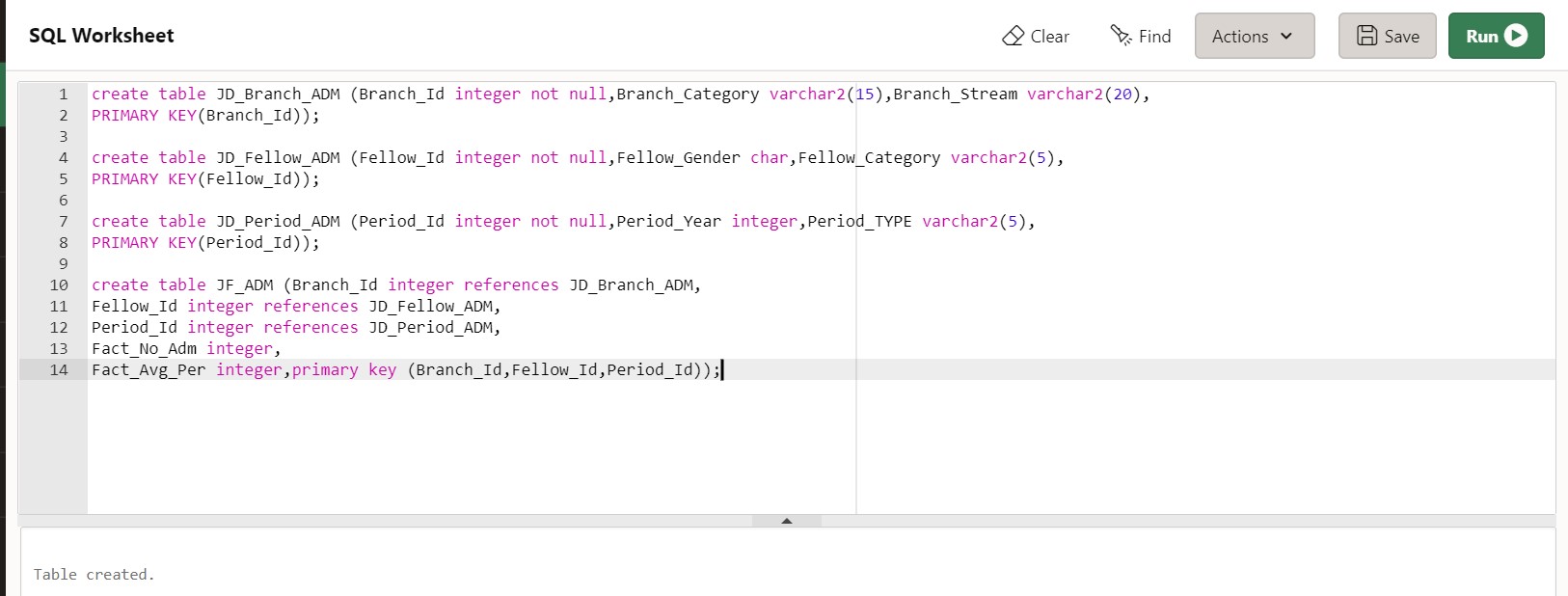
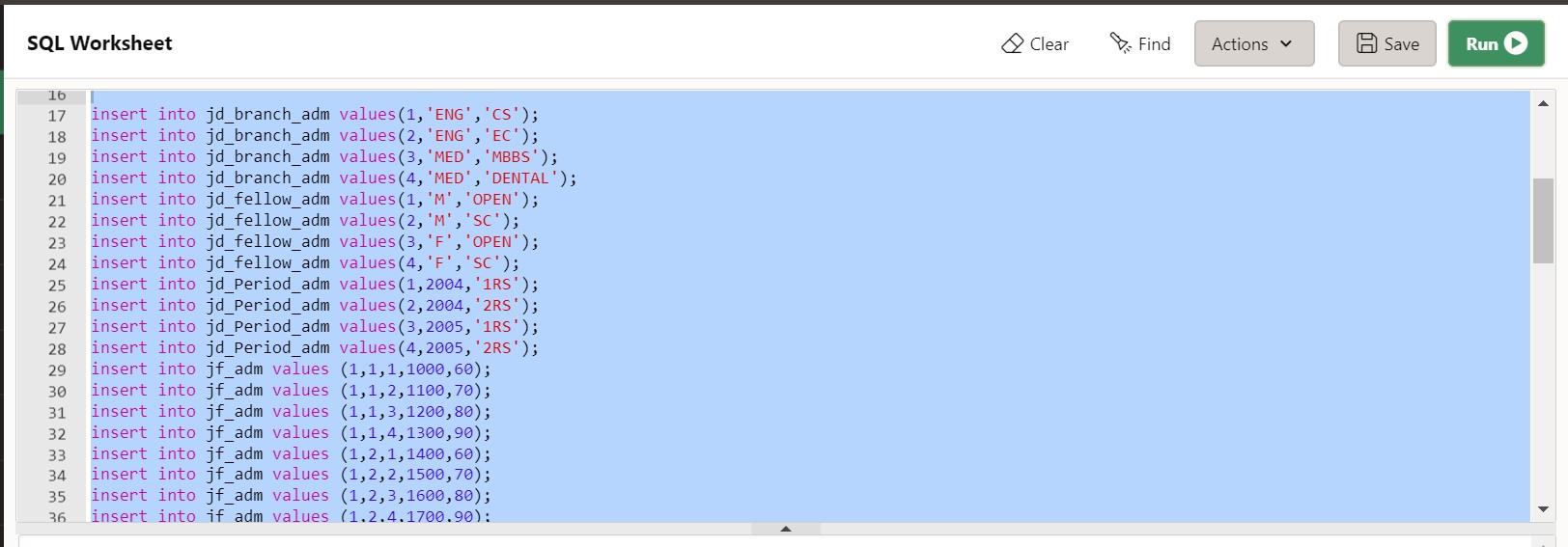
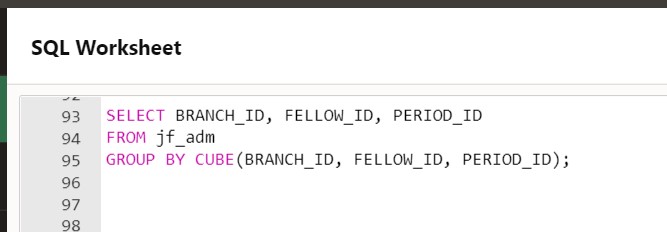


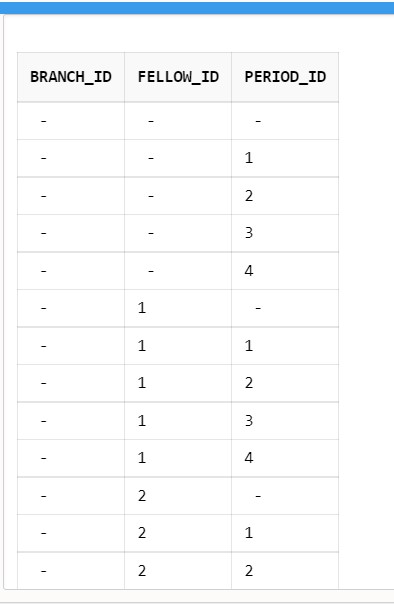
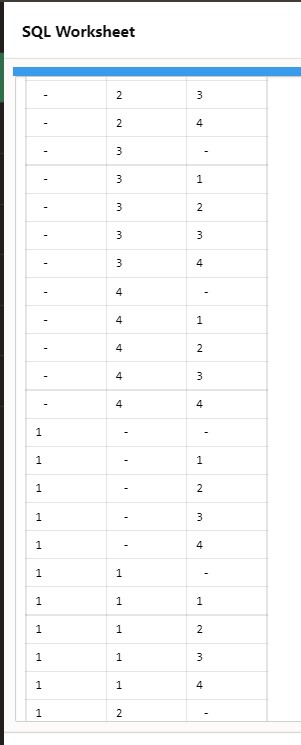
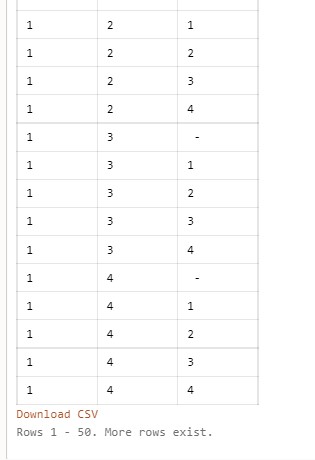
**Q. 6: Validate/Map data types across different database systems when migrating from one to another.**

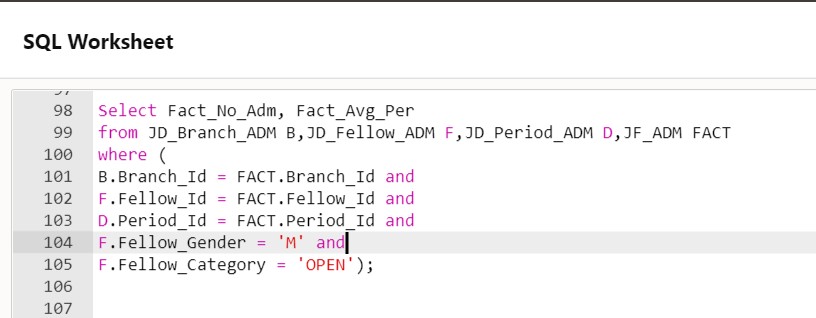


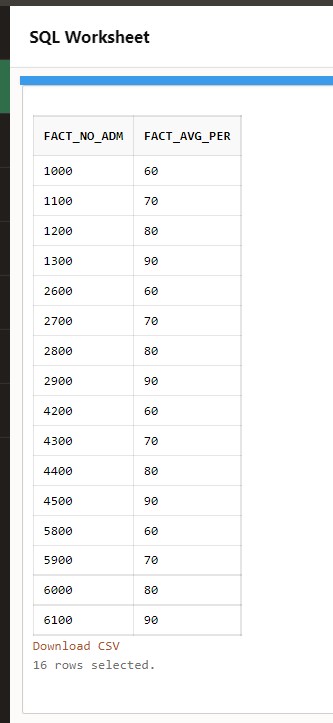


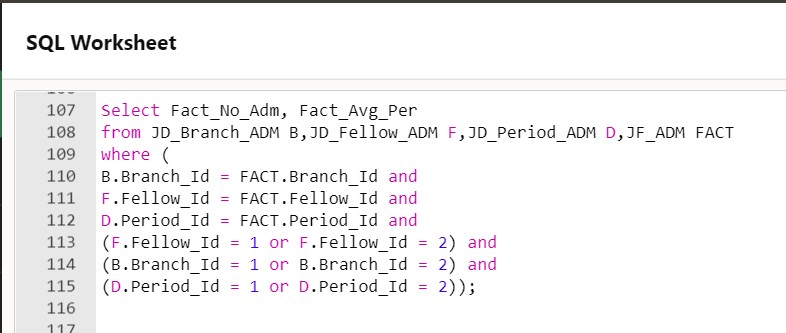
**Q. 7: Represent data cube and perform operations. OLTP – Data Warehouse.**

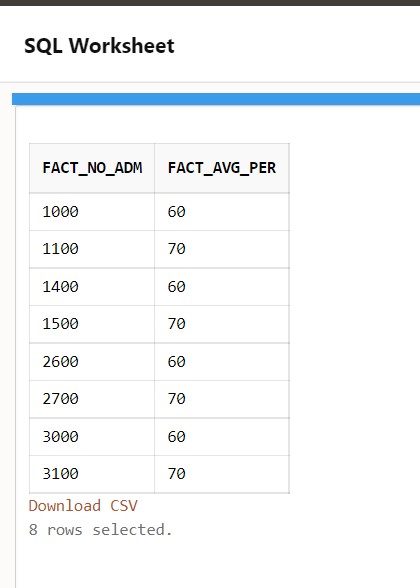
* **Creating tables:**
* **Inserting data into tables:**
* **Representing data as data cube:**



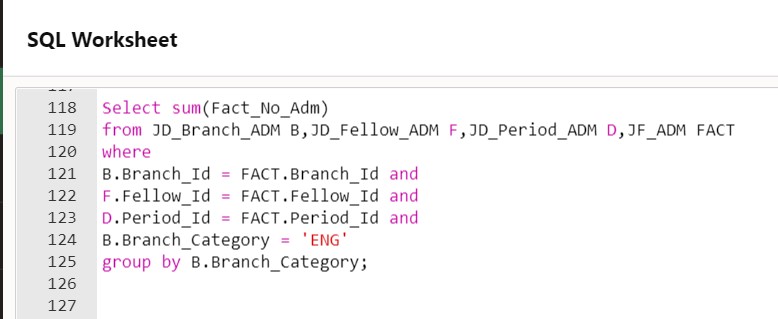
* **Slice operation:**

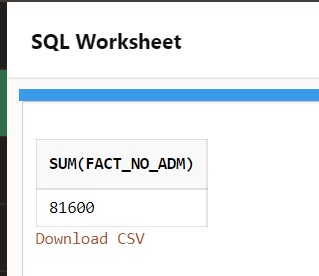


* **Dice operation:**



* **Roll up operation:**





**Q. 8: Generate pdf report. / Use any virtualization tool.**

