# Lab-1

# CE004

# 20CEUOD004

# Data Types

Student Information : Structured
 Book Information : Structured
 Feedback Form : Structured

4. Issuing and returning book information: Structured

5. E-Learning content : unstructured6. Web Pages : Semi Structured

#### Database vs. Data Warehouse

#### - Database

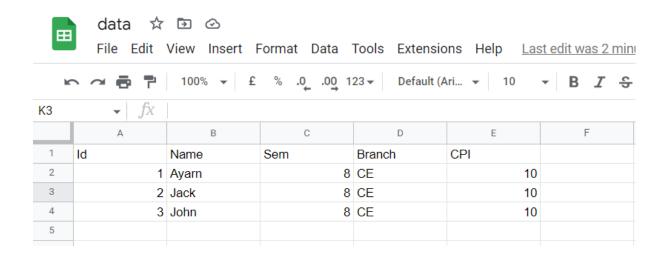
- Used in OLTP
- Optimised for write operation
- Current Data
- Application Oriented
- Normalised Data

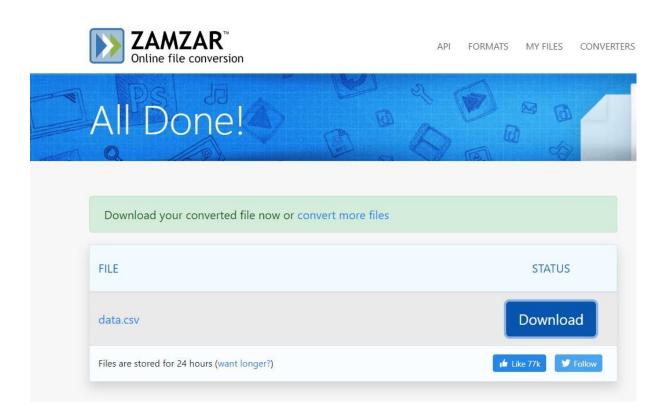
#### - Data Warehouse

- Used in OLAP
- Optimised for read operation
- Historical Data
- Subject Oriented
- Denormalized Data

# • Given the spreadsheet file convert it into a csv

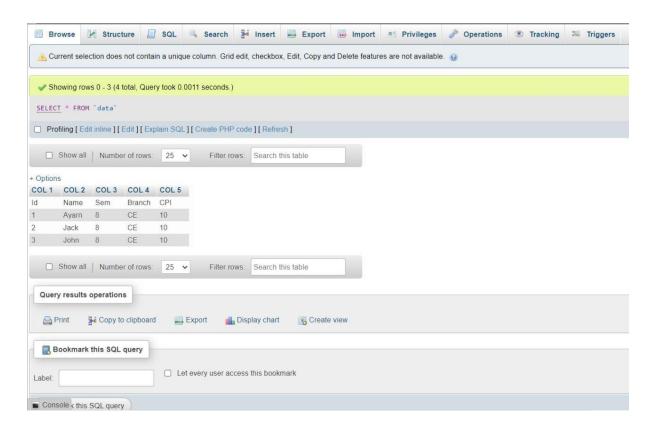
https://www.zamzar.com/convert/xls-to-csv/





Id,Name,Sem,Branch,CPI
1,Ayarn,8,CE,10
2,Jack,8,CE,10
3,John,8,CE,10

• Import a csv into MySQL database table

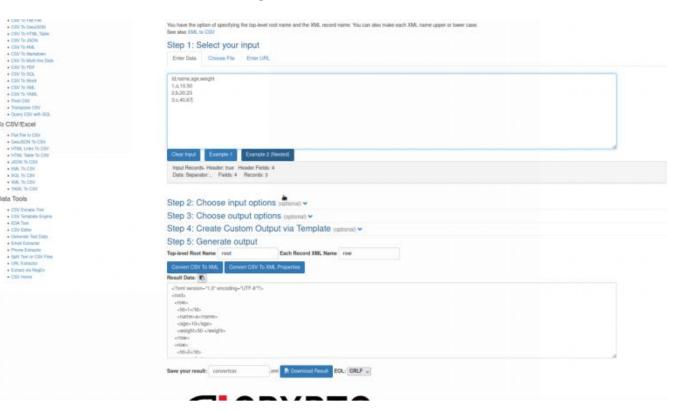


- Write a computer program to read records from database and generate data file.
- o XML
- o JSON

### Convert CSV to Database file into sqlite.

```
[user1@hadoop-clone Personal]$ sqlite3
SQLite version 3.7.17 2013-05-20 00:56:22 Enter ".help" for instructions
Enter SQL statements terminated with a ";"
sqlite> .mode csv
sqlite> .import Student.csv Student
Error: no such table: Student
sqlite> CREATE TABLE Student(id integer PRIMARY KEY, name text, age integer, weight integer);
sqlite> .import Student.csv Student
Error: datatype mismatch
sqlite> INSERT INTO Student (7, "abc", 20, 40);
Error: near "7": syntax error
sqlite> INSERT INTO Student VALUES (7, "abc", 20, 40);
sqlite> SELECT * FROM Student;
7,abc,20,40
sqlite> .import Student.csv Student
sqlite> SELECT * FROM Student;
1,a,10,50
2,b,20,23
3,c,40,67
7,abc,20,40
sqlite> .tables
Student
sqlite> .output Student.sql
sqlite> .dump
sqlite> .exit
```

# CSV To XML Using 'convertesv.com'



# CSV To JSON Using 'csvjson.com'

