# Lab-1

## CE084 19CEUBS149

## **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

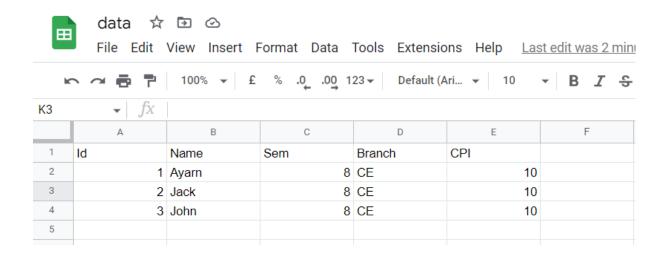
- Used in OLTP
- Optimised for write operation
- Current Data
- Application Oriented
- Normalised Data

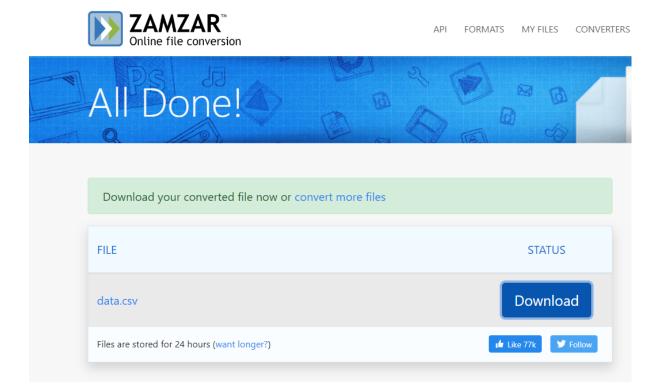
### - Data Warehouse

- 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/

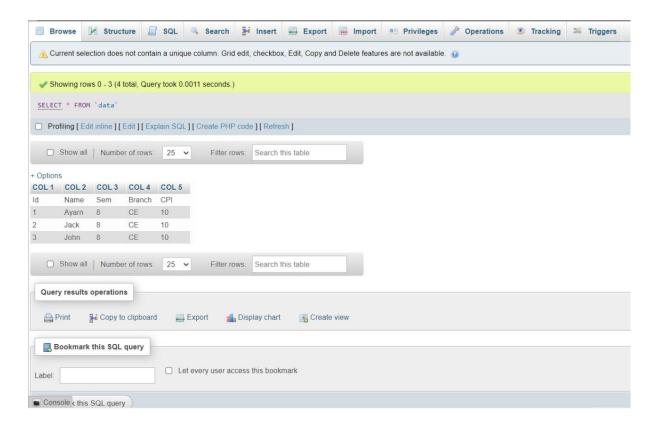




Id,Name,Sem,Branch,CPI
1,Ayarn,8,CE,10
2,Jack,8,CE,10

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
- 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 'convertcsv.com'

To CSV/Excel

Data Tools

File Tile to CSV

GeoutSON To CSV

HTML Links To CSV

HTML Links To CSV

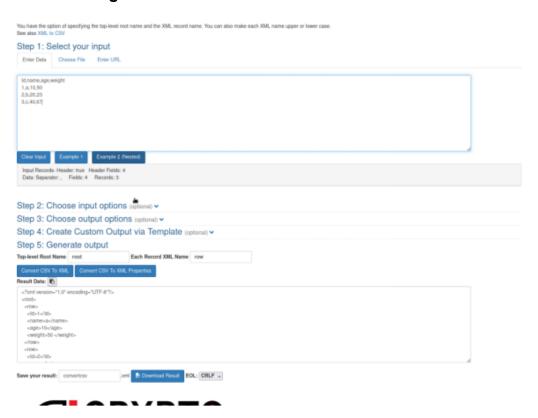
HTML Table To CSV

JSCN To CSV

SIGL To CSV

VAML To CSV

VAML To CSV



## CSV To JSON Using 'csvjson.com'

