# Sub Assignment 3: Transforming CSV Data into a MySQL Relational Database [Level Hard]

Steps that I follow:

Step 1: After cleaning and processing data update this changes in dataset file.

import csv

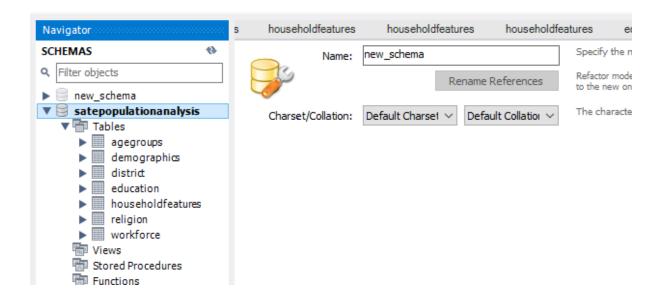
csv\_file\_path = 'india-state-wise-data-analysis.csv'

df.to csv(csv file path, index=False)

I use this to update changes in file

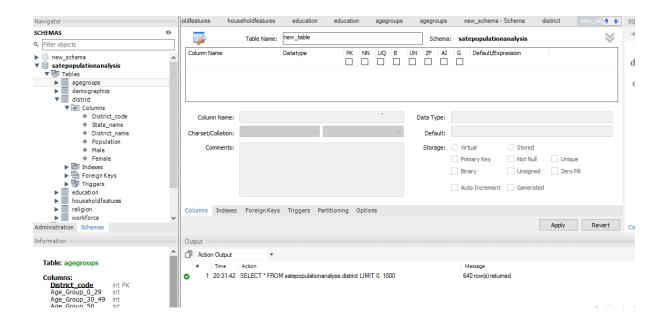
Step 2: I used MySQL Workbench for create the schema.

First I created new database-



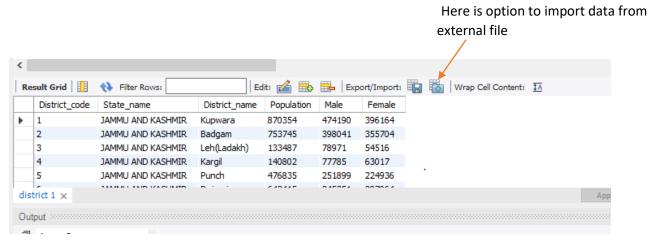
Here, **statepopulationanalysis** is my databse name

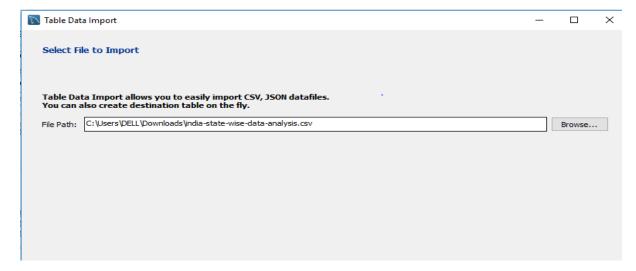
Step 3: Then I created new table 'District'



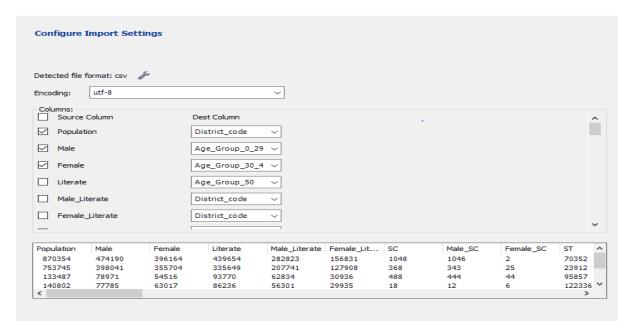
When creating table I kept name of column same as name of column in dataset "india-state-wise-data-analysis.csv" for ex .for district code column name is District \_code in dataset so, in table it is kept as same 'District \_code'

Step 4: After creating table ,I imported data from CSV file(dataset file) into table .s

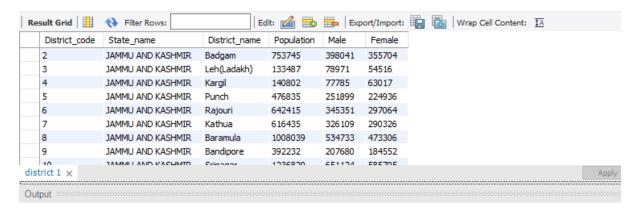




#### Select CSV file



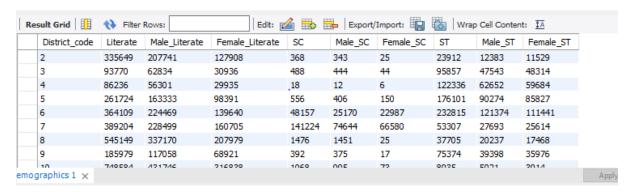
## Choose columns which data we want to be inserted.



All data imported in selected fields

**Stpe 5:** By follow above steps I created all other tables.

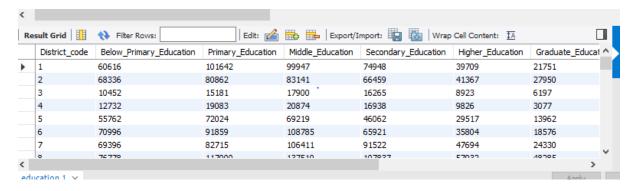
## **Demographics table:**



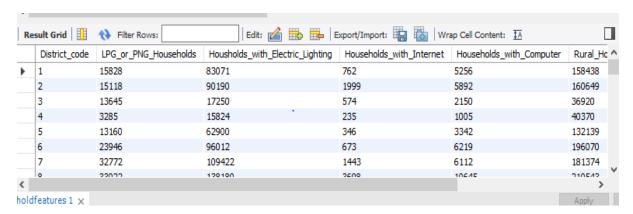
## Agegroups table:



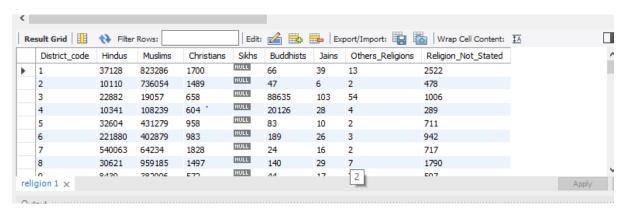
## **Education table:**



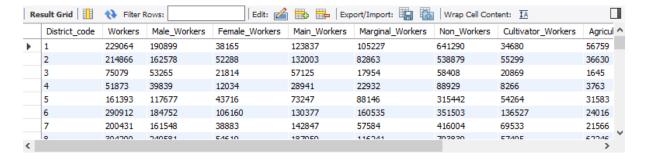
## Householdsfeature table:



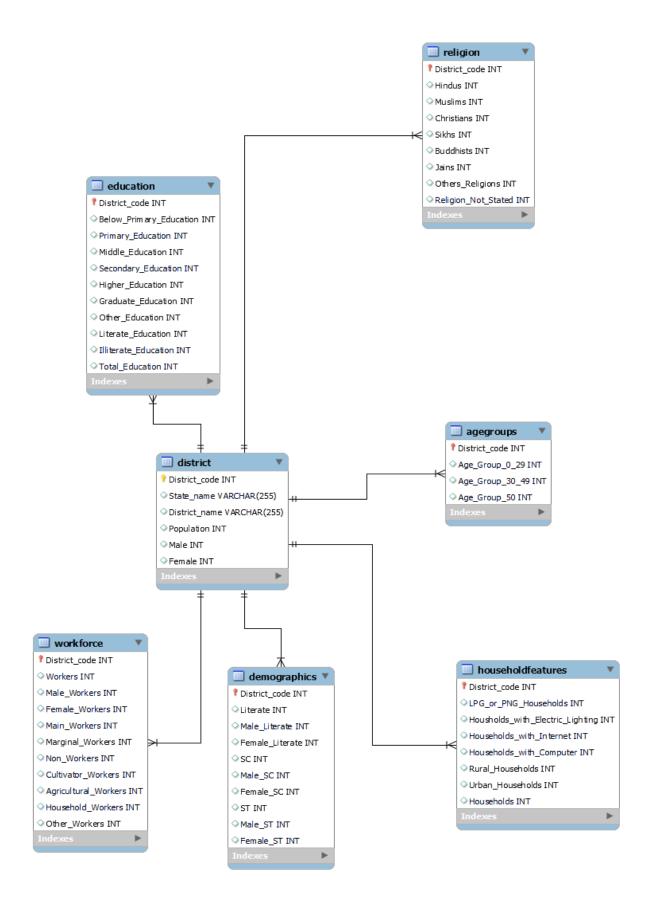
## **Religion table:**



## Workforce table:



Step 6: After creating all table get final schema



## **Entity and its Attributes:**

## **District Entity:**

**Atrributes:** DistrictCode (Primary Key), StateName ,DistrictName ,Population,Male,Female

## **Demographics Entity:**

**Attributes:** DistrictCode (Foreign Key), Literate, MaleLiterate, FemaleLiterate, SC ,MaleSC ,FemaleSC,ST, MaleST,FemaleST

## **Workforce Entity:**

#### **Attributes:**

DistrictCode (Foreign Key), Workers ,Male Workers ,Female Workers,Main Workers,Marginal Workers,Non Workers,Cultivator Workers, Agricultural Workers ,Household Workers, Other Workers

#### **Religion Entity:**

**Attributes:** DistrictCode (Foreign Key), Hindus ,Muslims, Christians, Sikhs,Buddhists,Jains, Others Religions,Religion NotStated

## **Household Features Entity:**

**Attributes:** DistrictCode (Foreign Key) ,LPGorPNGHouseholds ,HouseholdsElectricLighting,HouseholdsInternet,HouseholdsComputer,RuralHouseholds,Urb anHouseholds HouseholdsTotal

## **Education Entity**

**Attributes:** DistrictCode (Foreign Key)BelowPrimaryEducation, PrimaryEducation, MiddleEducation, SecondaryEducation, HigherEducation, GraduateEducation, OtherEducation,LiterateEducation,IlliterateEducation,TotalEducation

#### Age Groups Entity

Attributes: DistrictCode (Foreign Key), AgeGroup0 29, AgeGroup30 49, AgeGroup50