# Problem Statement

The following table shows a few characters from the Harry Potter series of books.

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| --- | --- | --- | --- | --- |
| **Name** | **House** | **Role** | **Status** | **Dies** |
| Harry Potter | Gryffindor | Student | Self | No |
| Ginny Weasley | Gryffindor | Student | Friend | No |
| Ron Weasley | Gryffindor | Student | Friend | No |
| Hermione Granger | Gryffindor | Student | Friend | No |
| Neville Longbottom | Gryffindor | Student | Friend | No |
| Oliver Wood | Gryffindor | Student | Friend | No |
| Luna Lovegood | Ravenclaw | Student | Friend | No |
| Cho Chang | Ravenclaw | Student | Friend | No |
| Cedric Diggory | Hufflepuff | Student | Friend | Yes |
| Hannah Abbot | Hufflepuff | Student | Friend | No |
| Draco Malfoy | Slytherin | Student | Enemy | No |
| Vincent Crabbe | Slytherin | Student | Enemy | Yes |
| Gregory Goyle | Slytherin | Student | Enemy | No |
| Penelope Clearwater | Slytherin | Student | Enemy | No |
| Albus Dumbledore | Gryffindor | Faculty | Friend | Yes |
| Severus Snape | Slytherin | Faculty | Enemy | Yes |
| Remus Lupin | Gryffindor | Faculty | Friend | Yes |
| Horace Slughorn | Slytherin | Faculty | Friend | No |
| Rubeus Hagrid | Gryffindor | Faculty | Friend | No |
| Minerva McGonagall | Gryffindor | Faculty | Friend | No |
| James Potter | Gryffindor | Student | Family | Yes |
| Sirius Black | Gryffindor | Student | Friend | Yes |
| Lily Potter | Gryffindor | Student | Family | Yes |
| Peter Pettigrew | Gryffindor | Student | Enemy | Yes |
| Tom Marvolo Riddle | Slytherin | Student | Enemy | Yes |

Status column refers to the status with respect to Harry Potter.

1. Model the necessary data entities as classes
2. Write a function that will accept parameters and insert these records into the table
3. Create a function which exports the data present in the DB table into a text file which will contain one record per line in a delimiter (,) separated format (CSV). The file should be editable in MS Excel
4. Create a function which can import the data from the above-mentioned file into the table. While importing data from CSV format, even if duplicate records exist in the file, there should only be one record inserted into DB (Use Set functionality).
5. Create an application with a main and keyboard based menus to prompt the user and to test the functionality.