# Project Description

The project consists of a database management tool that uses a CLI based interface, like what would be seen in a Unix terminal or a Linux interface. The interface will be implemented with python using ncurses to facilitate a menu interface, and will facilitate the use of postgreSQL commands.

The various functions can be grouped into various categories, based around a certain default display and associated functions. Each default display contains a table of list items and associated properties, each of which will be accessible via a numerical entry, as well as the associated functions, each of which will be assigned a single alphabetical character command.

# Home view

Under the home view, the default view will be the list of databases within the account, each of which will be accessed by a number.

# Database view

Under the database view, the default view will be the list of tables within the database, along with the following associated properties of each table:

* Table name
* Number of records
* Table type
* Collation
* Table size

Each table will be accessible by a numerical command. In addition, the following functions will be assigned a single alphabetical character command:

* SQL – execute a SQL query as entered by the user
* Search – search for terms via user input and a list of alphabetical character commands
* Query – execute a query via user inputs and alphabetical character commands
* Export a table to a file
* Import a table to a file

# Table view

Under the table view, the default view will be the list of fields within the table, along with the associated properties of each field:

* Field
* Type
* Collation
* Attributes
* Null/Not Null
* Default
* Extra properties

There will also be a view for individual entries in the table, along with the properties of each entry associated with each of the fields above.

In both of the above list views, each list item will be accessible by a numerical command. In addition, the following functions will be assigned a single alphabetical character command:

* SQL – execute a SQL query as entered by the user
* Search – search for terms via user input and a list of alphabetical character commands
* Insert – insert a new entry into the table via a series of user inputs and alphabetical commands
* Export a table to a file
* Import a table to a file

In addition to the above, pagination functionality will be implemented for lists and tables whose length exceeds the view of a single window.