A) Data Validation and Database Insertion:

• Implement JavaScript methods to validate the submitted CSV data, this is provided in the index.js file.

A screen shot of a computer

Description automatically generated

Creating a connection to our database with the relevant host address, username and password.

A screen shot of a computer code

Description automatically generated

Regex validation that is being used to check the data input from the sample, and according to the validation the decision to add the information to the database or not will be decided.

• If validation fails for a record, throw an error message indicating the index position of the failed record.

A screen shot of a computer code

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Making a function that checks the data to our regex, split the name and throw an error if it does not not contain first and last name.

A screenshot of a computer code

Description automatically generated

The regex validation being used to check the input from the sample data.

A screen shot of a computer

Description automatically generated

Returning verified data, of a single row.

A computer screen with text on it

Description automatically generated

Creating a new function that will run through the sample data, dividing them between commas ‘,’ and return the value after validating using checkData function.

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Description automatically generated

• Insert only the valid records into the database, make sure the table name is “mysql\_table”.

A screen shot of a computer code

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Insert the data we checked and validated to our MySQL database by utilizing INSERT INTO query and print a message to user indicating how many users were added from the sample data.

• Ensure the database table column names are camel cased as follows i.e “first\_name”.

A black screen with yellow text

Description automatically generated

And lastly, actually running the functions we declared above with our sample data.

A screenshot of a computer

Description automatically generated

Added a console.log command to show us how the data is being stored and validated through our function, this was mostly used for troubleshooting while working with the file.

  
Above is our final result, the user Michael Johnson was not added to the database as they had an invalid input of “Null” on the age field, and this means our data insertion is working perfectly as intended.

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Description automatically generated

Our sample data was successfully inserted to our database, with an auto incrementing primary key “id” as an extra column for future functionality. And our database follows the required camel cased name structure.