**SIES 630-01 Database Management Systems & Design**

**Final Project Proposal**

**Project Topic: Recipe Junction - Cooking Recipe Portal**

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Project is based on an online recipe portal which has all recipes related data. It aims to create a webpage which is user friendly and allows users to explore and share their recipes.

For this project I have created four main entities like **User, Ratings, Recipe category, and Recipe of the month**. It also has four sub entities as **Vegetarian, Non-vegetarian, Vegan, and Desserts**. These sub entities come under table ‘**Recipe category**’.

**Five Topics from class included in this project.**

* **Database Design**
* **Use of Parent – Child data tables.**
* **Logical and Relational diagram in data modeler**
* **CRUD Operations**
* **SQL Queries – DDL, DML, DDL, DQL.**

**Database Design**

* **Some examples of creating tables**

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* **Some examples of Inserting data**

Data Source - (Mockaroo, n.d.)

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* As I have used ‘unique’ constraint in the users table on email it does not allow me to add data with same email.
* To do that I need to ‘alter’ table and remove ‘unique’ constraint.

**Inserting data into vegetarian table –**

* Data Source - (Chat GPT, n.d.)

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**Inserting data into a desserts table.**

Data Source - (Chat GPT, n.d.)

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**Inserting data into recipe category.**

Data source - (Mockaroo, n.d.)

* This entity has only four data values. Each data value is a separate entity by itself which comes under recipe\_category acting as parent data table.

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* **DDL – Use of create table, alter table.**

I used ‘create table’ for creating all the tables, some of the examples are shown above.

* Alter table.

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Select query.

A close-up of a sign

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A screenshot of a recipe

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* **DML – Insert table and update commands.**

Insert query.

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Update query.

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Delete Query.

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* Query to find out highest rated recipe\_category.



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* Left Join

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* Right Join

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**Some Other advanced queries**

* This query shows users who have added recipes in vegetarian as well as dessert table.

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* This query shows all the recipes from all four categories which have ‘cheese’ in it.

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**Logical Diagram:**

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**Relational Diagram:**

**A diagram of a computer code

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# References

*Chat GPT*. (n.d.). Retrieved from https://chat.openai.com/?model=text-davinci-002-render-sha: https://chat.openai.com/?model=text-davinci-002-render-sha

*Mockaroo*. (n.d.). Retrieved from https://www.mockaroo.com/: https://www.mockaroo.com/