SC2207: Introduction to Databases

Lab 1 Submission

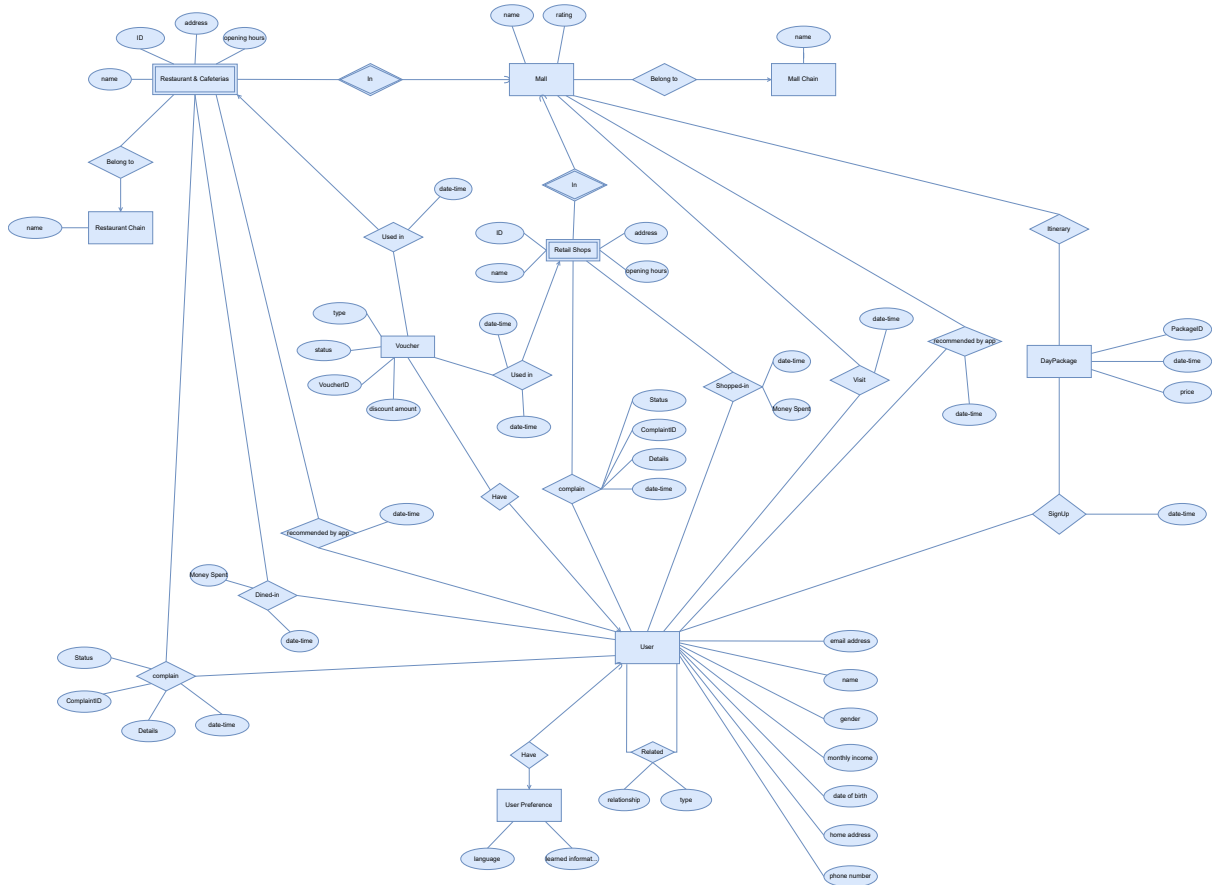| Name	Email	Matric Number
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2023/2024 Semester 2

ER Diagram

Explanations

Assumptions

- For the *User* entity, `date of birth`, `name`, and `gender` are optional. If we don't have information about it, "`None`" will be filled in.

- For the *User Preference*, "`learned information`" uses natural language to store the user's preference, generated by ChatGPT.

- Assume that *Cafeterias* are a type of *Restaurant* and, hence can be grouped under the same entity set *Restaurant & Cafeterias*.

- Assume that a *User* can sign up for and be part of multiple *Day Packages* at the same time.

- Assume that *Cash Vouchers* can only be used in *Restaurants & Cafeterias*, and *Purchase Vouchers* can only be used in *Retail Shops*.

- Assume that *Discount Vouchers* mentioned in Appendix A of the Lab Manual, bullet point 6 is not another type of voucher, but refer to either of the 2 existing types of voucher, *Purchase Voucher* or *Cash Voucher*.

Features

- The system can recommend suitable restaurants according to the user's visiting history.

- For the user-history-related queries (like the earnings of the restaurant), we only maintain the user history instead of maintaining all the answers for queries, which follows the principle "*Avoid Redundancy*".

- Instead of creating different types of vouchers, we use a general entity Vouchers with an attribute type, following the design principle "*Keep It Simple*".

Appendix

Appendix A: Individual Contribution Form

Full Name	Individual Contribution to Lab 1 Submission	Percentage of Contribution	Signature
Pu Fanyi	ER Diagram	14.29%	
Jin Qingyang	ER Diagram	14.29%	
Qian Jianheng Oscar	ER Diagram	14.29%	
Soo Ying Xi	ER Diagram	14.29%	
Ting Ruo Chee	ER Diagram	14.29%	
Ye Yuhan	ER Diagram	14.29%	
Tang Yutong	ER Diagram	14.29%	

Appendix B: Individual Contribution Form

Team member (full name)	Signature	Date	A or B*
Pu Fanyi		13/Feb/2024	A
Jin Qingyang		13/Feb/2024	A
Qian Jianheng Oscar		13/Feb/2024	A
Soo Ying Xi		13/Feb/2024	A
Ting Ruo Chee		13/Feb/2024	A
Ye Yuhan		13/Feb/2024	A
Tang Yutong		13/Feb/2024	A

* Each team member should indicate either A or B:
    A. I affirm that my contribution(s) to the lab work is my own, produced without help from any AI tool(s).
    B. I affirm that my contribution(s) to the lab work has been produced with the use of AI tool(s).