DBMS LAB 07 TASK

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Note: Write down your commands and errors encountered in a notepad file to be evaluated.

SCENARIO

Bhalo Basha Chai - is a housing agent in Bangladesh like Bikroy.com that publishes advertisements of properties that can be rented. Previously they stored all their information in papers. Recently they have decided to use a database. They have come up with the following requirements:

- There are many branches of Bhalo Basha Chai throughout the country. Each branch is located in a street of a city and has a postcode.
- Many employees work in Bhalo Basha Chai. Upon joining the company, they provide their first name, last name, sex, date of birth. They are also appointed to a position (like manager, salesperson etc) in a specific branch. Their salaries are also recorded for tax purpose.
- Numerous clients rent houses from Valo Basha Chai. Whenever they register on the website, they provide their first name, last name, telephone number, email, preferred accommodation type and the maximum amount of rent they can afford.
- During registration, the client goes to a specific branch. He/she is also assigned a staff member who is their contact person. A client can register in multiple branches.
- Bhalo Basha Chai needs to store information about the property owners who actually own the houses. The owners register on their website by providing their first name, last name, telephone number, email and password.
- Bhalo Basha Chai has multiple houses for rent under them. These houses are denoted by street, city, postcode, type, number of available rooms, rent. Each property is associated with one owner, one contact person who is also a stuff of Bhalo Basha Chai and the branch the staff works in.

- Each client can visit a property multiple times, but not twice in a day. A client can make some comments about the property during his/her visit. The date of his/her visit also needs to be documented.

Your tasks are:

1. Create an ER Diagram with appropriate cardinality. Make sure you specify both the minimum and the maximum cardinality of each entity using the notations shown in the lecture. You are free to add attributes to the entities only if needed.
   For each relationship, comment on how your design satisfies the given requirements.

2. Convert the ER Diagram into a relational model using standard SQL. [Make sure to appropriately declare primary keys and foreign keys.]

3. Upload a zip file that contains your ERD, a text file containing the DDL statements you have used to create a relational model of your ERD and the comments you have used to explain your design choices.