VIET NAM NATIONAL UNIVERSITY HO CHI MINH CITY

HO CHI MINH UNIVERSITY OF TECHNOLOGY

DATABASE SYSTEM
ASSIGNMENT 1

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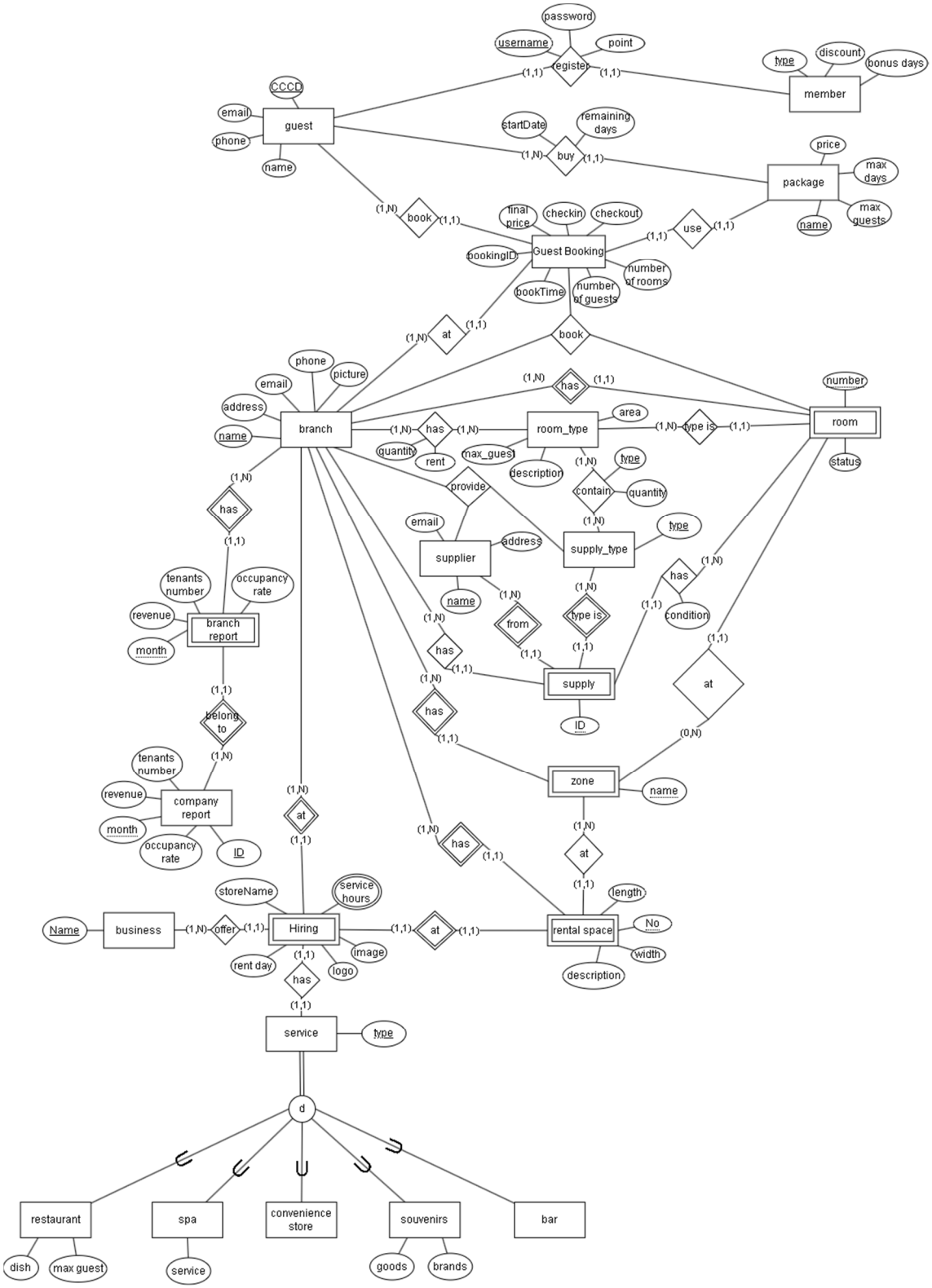
EER diagram:

- Image: https://drive.google.com/file/d/14BynXaahdEdTB2uKmkCPtwif8ishIvRv/view?usp=sharing
- Draw.io file: https://drive.google.com/file/d/1KscByhRemcGcDqSn4JR44A2gTAs5Pjdm/view?usp=sharing

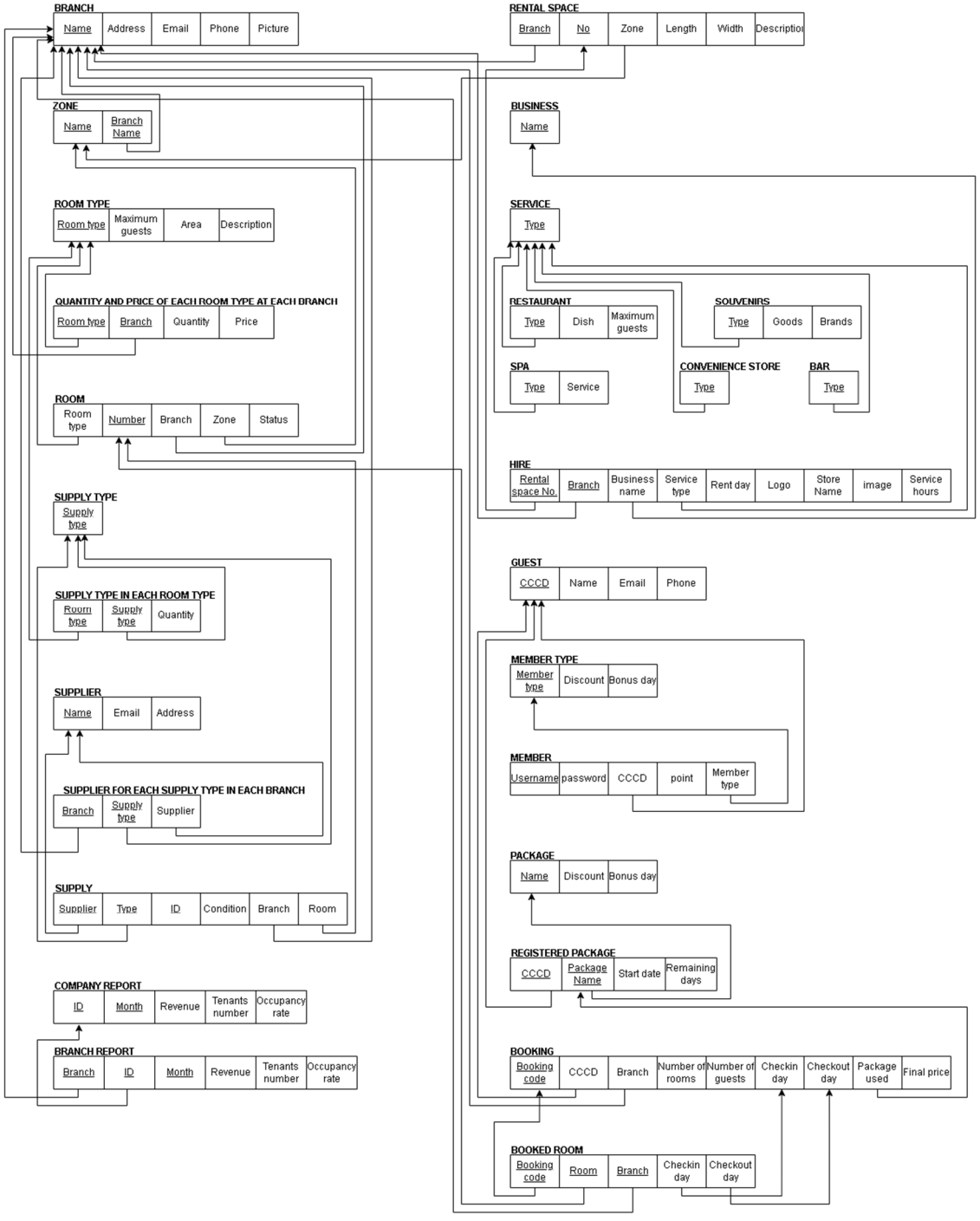
Relational data schema:

- Image: https://drive.google.com/file/d/10vMQNOxPvtuwRrNmH1TSZ7kstnxzuuh-/view?usp=sharing
- Draw.io file: https://drive.google.com/file/d/1L_8O0R0w7bjd2nVTPUK2yy698HXmxXjW/view?usp=sharing

1. EER diagram



2. Relational data schema



3. Semantic constraints

- Room area can be different from reality.
- The supplier will assist with the delivery and maintenance of the supplies.
- Guests can book rooms online on the resort's website.
- The system will display the available room types according to the customer's requirements.
- Guests need to make payment at least 36 hours before check-in date. Reservations will be canceled if payment is not made on time. Guests can cancel the reservation at least 24 hours before the check-in date and receive a full refund of the paid amount. Failure to cancel on time or failure to show up on the date of registration will result in a charge of one day's rental and cancellation of the application.
- The system will check the registration information, the number of remaining days, the number of guests allowed is valid or not. If it is not valid (number of days exceeded, number of guests exceeded), the customer needs to re-register: one application suitable for package information, another application for out-ofpackage requirements.
- The lessee needs to pay the rent one month in advance at the end of the lease year to be able to continue operating for the next year. The system will send a reminder when the rental payment is near due.