Database Management:

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1) I chose to study the business process of a hotel. In this case, I will be describing the booking process of "La Reine Astride" a luxury hotel in Lyon.

2) See **exhibit A** for the complete database enhanced E-R model.

Entities:

- Hotel
- employee
- Customer
- Reservation
- Room booking line (associative entity)
- Room

Note: in this case, employees work full time for this hotel. (The hotel to employee relationship is not many to many).
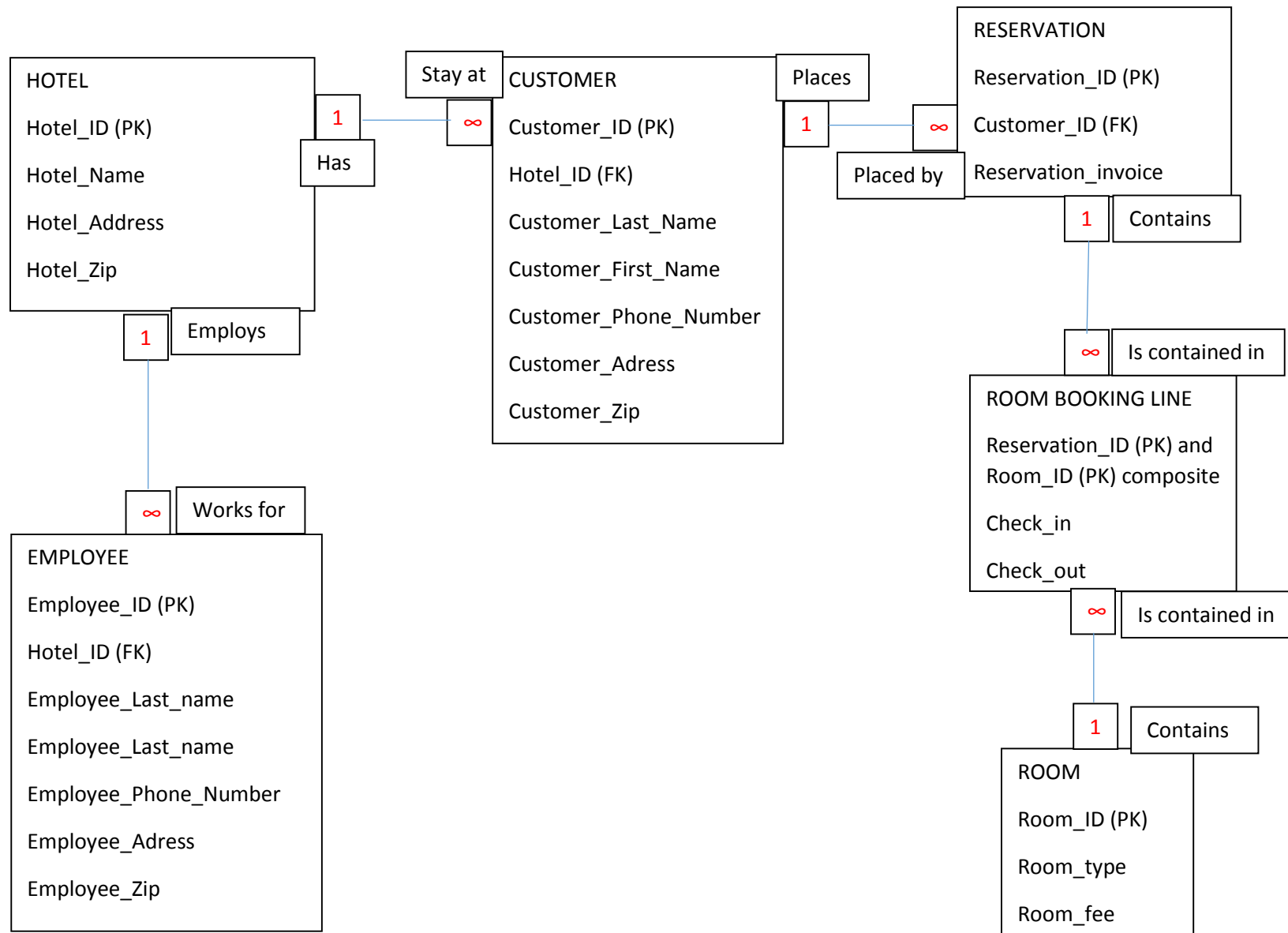
3) SQL statements.

Oracle SQL script: The SQL script contains statements to develop database tables for each entities in the model and populate the tables with dummy rows to check functionality

You can download the **Oracle SQL script here.**

You can download the **Microsoft Access** version of this database here.

Exhibit A

HOTEL

Hotel_ID (PK)

Hotel_Name

Hotel_Address

Hotel_Zip

Stay at

Has

1 | ∞

CUSTOMER

Customer_ID (PK)

Hotel_ID (FK)

Customer_Last_Name

Customer_First_Name

Customer_Phone_Number

Customer_Adress

Customer_Zip

Places

Placed by

1 | ∞

RESERVATION

Reservation_ID (PK)

Customer_ID (FK)

Reservation_invoice

1 | **Contains**

∞ | **Is contained in**

ROOM BOOKING LINE

Reservation_ID (PK) and
Room_ID (PK) composite

Check_in

Check_out

∞ | **Is contained in**

1 | **Contains**

ROOM

Room_ID (PK)

Room_type

Room_fee

1 | **Employs**

∞ | **Works for**

EMPLOYEE

Employee_ID (PK)

Hotel_ID (FK)

Employee_Last_name

Employee_Last_name

Employee_Phone_Number

Employee_Adress

Employee_Zip

Exhibit B: an example of row inserted in a table.

SQL> SELECT * FROM Customer_T;

CUSTOMER_ID	CUSTOMER_LAST_NAME	CUSTOMER_FIRST_NAME	CUSTOMER_PHONE _NUMBER	CUSTOMER_ADDRESS	CUSTOMER_ZIP	HOTEL_ID
1	Smith	John	415-000-0000	1 golden gate ave	94117	1