**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).

1. 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.**](https://www.dropbox.com/s/7zhn16a6xahtkmb/BLEIN_Hotel_database_ORACLE_SCRIPT.sql?dl=0)

You can download the [**Microsoft Access**](https://www.dropbox.com/s/9fi0oktt3mrrxkw/BLEIN_Hotel_database_ACCESS.accdb?dl=0) version of this database here.

**Exhibit A**

Works for

EMPLOYEE

Employee\_ID (PK)

Hotel\_ID (FK)

Employee\_Last\_name

Employee\_Last\_name

Employee\_Phone\_Number

Employee\_Adress

Employee\_Zip

∞

Contains

Is contained in

Is contained in

Contains

Placed by

Places

Stay at

Has

Employs

1

RESERVATION

Reservation\_ID (PK)

Customer\_ID (FK)

Reservation\_invoice

1

∞

ROOM BOOKING LINE

Reservation\_ID (PK) and Room\_ID (PK) composite

Check\_in

Check\_out

∞

ROOM

Room\_ID (PK)

Room\_type

Room\_fee

∞

1

∞

1

CUSTOMER

Customer\_ID (PK)

Hotel\_ID (FK)

Customer\_Last\_Name

Customer\_First\_Name

Customer\_Phone\_Number

Customer\_Adress

Customer\_Zip

1

HOTEL

Hotel\_ID (PK)

Hotel\_Name

Hotel\_Address

Hotel\_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

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