




Trishla Shah

Assignment 02

# MANAGING & PROGRAMMING DATABASE

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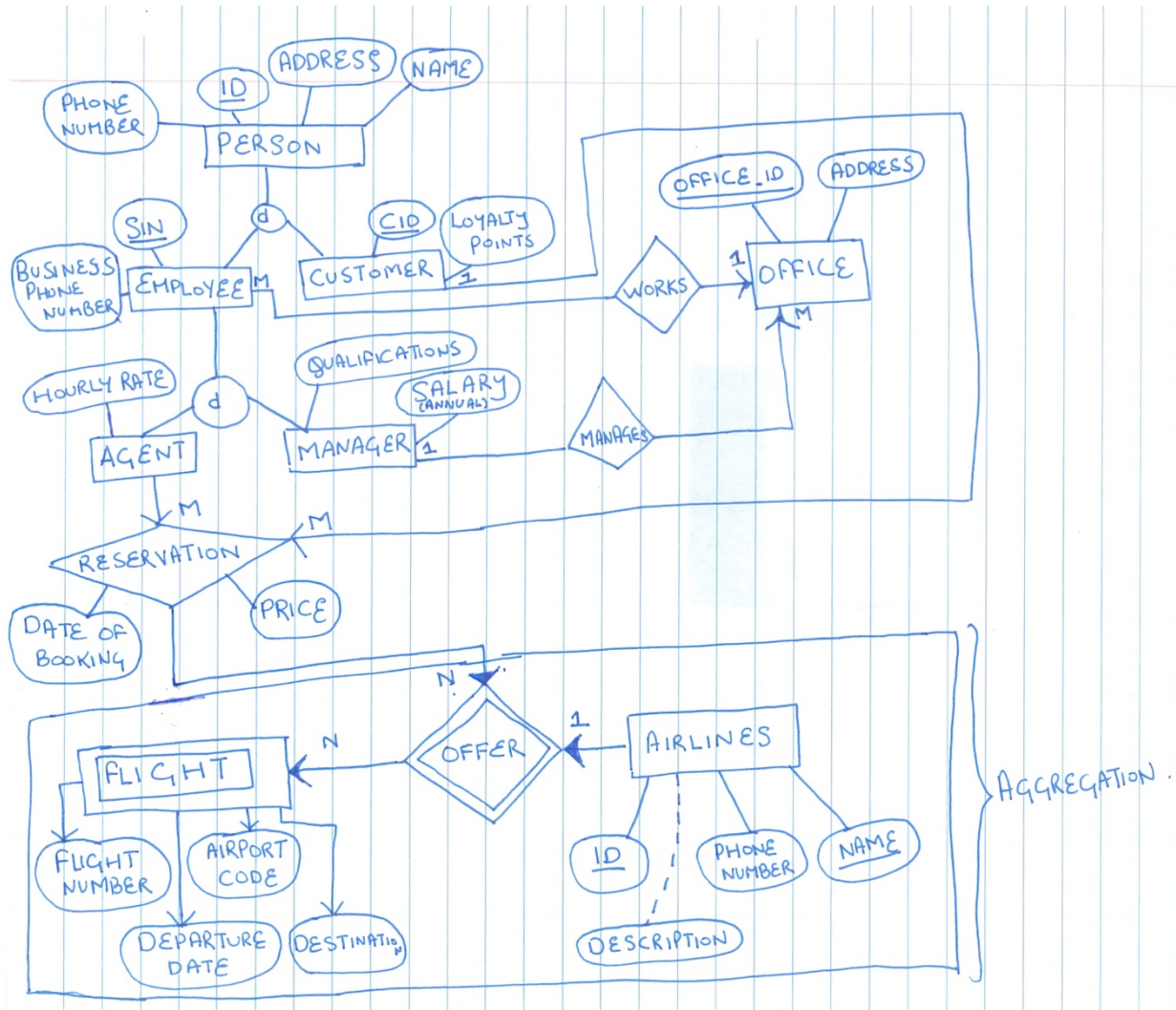




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## Question 1



### Assumptions & Understanding:

- Aggregation: The aggregation has been used as a flight would not be available to reserve if the airlines did not offer it. The Airlines offers flight regardless of if the agency reserves them for their customers. And the agency can only reserve tickets on a flight if the airlines offered them in the first place.
- Also added customer entity and has attribute loyalty points and CID as primary key.

## Question 2

### Entities

#### Artists Table

(AName, Epoch, MainStyle, Country, BornDates, DiedDates)

#### Permanent Table

Permanent (ID No, Cost, Date Acquired, On Display, Source)

Foreign Key Permanent (ID No) references Art Object (ID No)

#### Borrowed Table

Borrowed (ID No, Date Borrowed, Date to Return)

Foreign Key Borrowed (ID No) references Art Object (ID No)

#### Collections

Collection (ColName, Description, Contact Person, Type, Phone Number)

#### Exhibition

Exhibition (EName, Start Date, End Date)

#### Other

Other (ID No, Type, Style)

Foreign Key Other (ID No) references Art Object (ID No)

#### Painting

Painting (ID No, Material, Style)

Foreign Key Painting (ID No) references Art Object (ID No)

## Sculpture

Sculpture (ID No, Height, Material, Weight, Styles)

Foreign Key Sculpture (ID No) references Art Object (ID No)

## Statue

Statue (ID No, Honouree)

Foreign Key Statue (ID No) references Art Object (ID No)

## Art Object

Art Object (ID No, Year, Title, Description)

Is extended to

Art Object (ID No, Year, Title, Description, AName)

And the constraint

Foreign Key Art Object (AName) references Artist (AName, Epoch, Main Style, Country, BornDates, DiedDates)

## Relationships

### From Collection

From Collection (ID No, ColName)

Foreign Key From Collection (ID No) references Art Object (ID No)

Foreign Key From Collection (ColName) references Collection (ColName)

### Shown At

Shown At (EName, ID No)

Foreign Key Shown At (Ename) references Exhibition (EName)

Foreign Key Shown At (ID No) references Art Object (ID No)

### Question 3

Links to the pages hosted on the SMU server.

Main Menu

[http://dev.cs.smu.ca/~mn\\_hussain/Assignment2/main.php](http://dev.cs.smu.ca/~mn_hussain/Assignment2/main.php)

View All Users

[http://dev.cs.smu.ca/~mn\\_hussain/Assignment2/view.php](http://dev.cs.smu.ca/~mn_hussain/Assignment2/view.php)

Sign Up

[http://dev.cs.smu.ca/~mn\\_hussain/Assignment2/signup.html](http://dev.cs.smu.ca/~mn_hussain/Assignment2/signup.html)

Login

[http://dev.cs.smu.ca/~mn\\_hussain/Assignment2/login.html](http://dev.cs.smu.ca/~mn_hussain/Assignment2/login.html)

## References

<https://creately.com/diagram/example/iid8qkkq2/Airline+Reservation+System+ER+Diagram>

<https://www.youtube.com/watch?v=H2AGn0QHcSI&t=104s>