Lab Sheet 3

1. Draw the ER Diagram for an air ticket booking system and identify the relationship among the entities

The entities include the following attributes:

* Air ticket: ticket ID, fight ID, duration, seat number, ticket types, booking status, price, booking date, booking time.
* Customer: customer ID, name, address, telephone number, travel date, travel time.
* Staff: staff ID, name, salary, position.
* Airplane: airplane ID, name, detail of repair, date of repair, price, number of seat.
* Flight: fight ID, Country of origin, Country of destination, departure date and time, arrival date and time.

Q1. Reduce it to relational schema and create the tables and constraints (primary key and foreign key) accordingly.

Q2. Write the queries for:

1. Retrieving all the customers who book ticket in ‘AF102’
2. Retrieve all flightid departing on 15/9/15 having a minimum of 60 booked tickets.

1. Design an ER Diagram for product ordering system for membership with following details:

* The system has to keep the addresses of members.
* The product detail contains price and name.
* Member can buy products from store branches. The details of branch includes name and address.
* The detail of order consists of number of product, date of purchase, name of buyer and store branch.
* There are employees for every branches, one of them is manager.

Q1. Reduce it to relational schema and create the tables and constraints (primary key and foreign key) accordingly.

Q2. Write the queries for:

1. Retrieving all the name of all members who purchased a minimum of 100 ‘P102’ products in 20-Aug-2015
2. Retrieve the name of all managers.