**NORMALIZATION**

**Relation name : Sets**

**Attributes :** P\_id,P\_name,P\_email,Nationality,Passport\_no,Booking\_id,

Booking\_date, Class\_name,Price,Seat\_no.

**1NF** : P\_email is a multivalued attribute.

**2NF** : P\_id ,P\_name,P\_email,Nationality,Passport\_no.

Booking\_id, Booking\_date, Class\_name,Price,Seat\_no.

**3NF :** P\_id ,P\_name,P\_email,Nationality,Passport\_no **.**

Booking\_id , Booking\_date ,Seat\_no.

Cp\_id ,Class\_name,Price.

**Total Table List :**

1. P\_id ,P\_name,Nationality,Passport\_no
2. P\_id,P\_name (Composite primary key).

P\_id, P\_email

1. Booking\_id , Booking\_date ,seat\_no,
2. Cp\_id ,Class\_name,Price.

**Relation name : Assign**

**Attributes :** Booking\_id ,Booking\_date ,Class\_name,Price,Seat\_no,

Flight\_no, Route,Departure\_time,Duration,Destination,stoppage.

**1NF :** No multivalued attributes.

**2NF** **:** Booking\_id , Booking\_date, Class\_name,Price,Seat\_no.

Flight\_no ,Route,Departure\_time,Duration,Destination,stoppage.

**3NF :** Booking\_id , Booking\_date ,Seat\_no.

Cp\_id ,Class\_name,Price.

Flight\_no , Departure\_time.

R\_id , Route,Duration.

S\_id ,stoppage,Destination.

**Total Table List :**

1. Booking\_id, Booking\_date ,Seat\_no,
2. Cp\_id ,Class\_name,Price.
3. Flight\_no , Departure\_time,
4. R\_id , Route,Duration.
5. S\_id ,stoppage,Destination.

**Relation name : Has**

**Attributes :** Flight\_no,Route,Departure\_time,Duration,Destination,stoppage,A\_id, Type.

**1NF :** No multivalued attributes.

**2NF :** Flight\_no ,Route,Departure\_time,Duration,Destination,stoppage.

A\_id , Type.

**3NF :** Flight\_no , Departure\_time.

R\_id , Route,Duration.

S\_id ,stoppage,Destination.

A\_id , Type.

**Total Table List :**

1. Flight\_no , Departure\_time,
2. R\_id , Route,Duration.
3. S\_id ,stoppage,Destination.
4. A\_id , Type,

**Relation name : Serve**

**Attributes :** E\_id ,E\_name,Address,Salary,Hiredate,Job,Ephone,A\_id , Type.

**1NF :** Ephone is a multivalued attribute.

**2NF :** E\_id ,E\_name,Address,Salary,Hiredate,Job,Ephone.

A\_id , Type.

**3NF :** E\_id ,E\_name,Hiredate,Ephone.

J\_id ,Job,Salary.

Ad\_id ,Street,City,Country.

A\_id , Type.

**Total Table List :**

1. E\_id ,E\_name,Hiredate,
2. E\_id,Ephone (Composite primary key).

E\_id,Ephone

1. J\_id ,Job,Salary.
2. A\_id , Type.
3. Ad\_id ,Street,City,Country.

**Relation name : Manage**

**Attributes :** E\_id ,E\_name,Address,Salary,Hiredate,Job,Ephone, Booking\_id , Booking\_date, Class\_name,Price,Seat\_no.

**1NF :** Ephone is a multivalued attribute.

**2NF :** E\_id ,E\_name,Address,Salary,Hiredate,Job,Ephone.

Booking\_id , Booking\_date, Class\_name,Price,Seat\_no.

**3NF :** E\_id ,E\_name,Hiredate,Ephone.

J\_id ,Job,Salary.

Ad\_id ,Street,City,Country.

Booking\_id , Booking\_date ,Seat\_no.

Cp\_id ,Class\_name,Price.

**Total Table List :**

1. E\_id ,E\_name,Hiredate,

**2.** (Composite primary key).

E\_id,Ephone

1. J\_id ,Job,Salary.
2. Booking\_id, Booking\_date ,seat\_no,
3. Cp\_id ,Class\_name,Price.
4. Ad\_id ,Street,City,Country

**Final Table List:**

|  |  |  |
| --- | --- | --- |
| **Table No** | **Table Name** | **Column Name** |
| **01** | **Passenger** | **P\_id**,  **P\_name,Nationality,Passport\_no,** |
| **02** | **Passenger\_1** | **(Composite primary key).**  **P\_id,P\_email** |
| **03** | **Booking** | **Booking\_id Booking\_date,seat\_no,** |
| **04** | **Booking\_1** | **Cp\_id ,Class\_name,Price.** |
| **O5** | **Flight** | **Flight\_no , Departure\_time,** |
| **06** | **Flight\_1** | **R\_id , Route,Duration.** |
| **O7** | **Flight\_2** | **S\_id ,stoppage,Destination.** |
| **08** | **Airplane** | **A\_id , Type,** |
| **O9** | **Management** | **E\_id ,E\_name,Hiredate,** |
| **10** | **Management\_1** | **(Composite primary key).**  **E\_id,Ephone** |
| **11** | **Management\_2** | **J\_id ,Job,Salary**. |
| **12** | **Address** | **Ad\_id ,Street,City,Country.** |