Employee

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| Emp\_ID | INT | Unique row id. | Primary Key |
| Name | Varchar(32) | Name of person | NOT NULL |
| Address | Varchar(64) | Address of the person | NOT NULL |
| Gender | Varchar(6) | Specific gender of that person | NOT NULL |
| BrID | INT | Associated branch id from Branch Table | Foreign Key |

Passenger

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| Ps\_ID | INT | Passenger primary key | Primary Key |
| Name | Varchar(32) | Name of person | NOT NULL |
| Address | Varchar(64) | Address of the person | NOT NULL |
| Gender | Varchar(6) | Specific gender of that person | NOT NULL |
| Nationality | Varchar(16) | Nationality of the person | NOT NULL |

Employee\_Contact

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| Emp\_ID | INT | Employee ID from employee table | Foreign key |
| Cell\_No | INT | Cell phone number | NOT NULL |
| Email | Varchar(50) | Email of the employee | NOT NULL |

Passenger\_Contact

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| Ps\_ID | INT | Passenger ID from passenger table | Foreign key |
| Cell\_No | INT | Cell phone number | NOT NULL |
| Email | Varchar(50) | Email of the passenger | NOT NULL |

Booking Ticket

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| PsID | INT | Passenger id | Foreign Key |
| Emp\_ID | INT | Employee id | Foreign Key |
| BrID | INT | Booking branch of passenger | Foreign Key |
| Ticket\_id | INT | ID of ticket | Primary Key |
| BookingDate | Date | Keeps the booking date. | NOT NULL |
| BookingTime | Time | The time of flight | NOT NULL |
| Flight\_ID | INT | Flight number, a PK of Flight\_Schedule to determine flying details & costs. | Foreign Key |
| Travel\_Class\_ID | INT | Provides the information of travelling class of the passengers. | Foreign Key |
| Net\_Fare | Float(20) | Total amount | Foreign Key |

AirFare

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| PsID | INT | PK from passenger | Foreign Key |
| Travel\_Class\_ID | INT | Unique id. | Foreign Key |
| Flight\_ID | INT | Unique number to identify the flight. | Foreign Key |
| Fare | INT | Stores service charge amount. | NOT NULL |
| F\_SC | INT | Stores fuel surcharge amount. | NOT NULL |
| Net\_Fare | Float(20) | Total amount | Primary Key |

Cancellation

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| PsID | INT | Passenger primary key | Foreign Key |
| Emp\_ID | INT | Unique row id. | Foreign Key |
| Flight\_ID | INT | Unique number to identify the flight. | Foreign Key |
| Cancel\_id | INT | Cancellation of flight by passenger. | Primary Key |
| Cancel\_time | Date/time | Time of flight cancellation by passenger | NOT NULL |
| Ticket\_id | INT | ID of ticket | NOT NULL |

Extension

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| Ext\_id | INT | Extension of flight by passenger. | Primary Key |
| Ext\_time | Time | Extension time of flight | NOT NULL |
| Ext\_Date | date | Date of extenion | NOT NULL |
| Flight\_ID | INT | Unique number to identify the flight. | Foreign Key |
| PsID | INT | Passenger primary key | Foreign Key |
| Emp\_ID | INT | Unique row id. | Foreign Key |
| Ticket\_id | INT | ID of ticket | NOT NULL |

Countries

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| CtID | INT | Unique row id. | Primary Key |
| CountryName | Varchar(32) | Room to store country name | NOT NULL |

State

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| StID | INT | Unique row id. | Primary Key |
| StateName | Varchar(32) | State name will take place here. | NOT NULL |
| CtID | INT | Country id | Foreign Key |

City

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| StID | INT | Unique row id. | Foreign Key |
| City\_name | Varchar(32) | Name of city | Primary Key |

AirLine

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| Airline\_name | Varchar(32) | Name of the Airline company | Primary Key |
| No\_of\_branches | Int | Branches of a specific | NOT NULL |

Branch

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| BrID | INT | Unique id for each branches | Primary Key |
| City\_name | Varchar(32) | Name of city | Foreign Key |
| Airline\_name | Varchar(32) | Name of airline to which aircraft belong | Foreign Key |
| Branch\_type | Varchar(16) | Branch Type head office or branch | NOT NULL |
| Address | Varchar(32) | Address of the branch | NOT NULL |
| StID | INT | State ID from state table | Foreign Key |

AirCraft

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| AcID | INT | Specific ID of that Air Craft. | Primary Key |
| Airline\_name | Varchar(32) | Name of airline to which aircraft belong | Foreign Key |
| Capacity | INT | No. of seats available. | NOT NULL |
| MfdBy | Varchar(128) | Manufacturing company. | NOT NULL |
| MfdOn | DATETIME | Manufactured date of aircraft. | NOT NULL |
| BrID | INT | Unique Branch ID form branch | Foreign key |

Route

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| RouteID | INT | Stores unique row id. | Primary Key |
| City\_name | Varchar(32) | From where the flight will take off | Foreign Key |
| Destination | Varchar (32) | Flight destinations. | NOT NULL |
| AcID | INT | Specific ID of that Air Craft. | Foreign Key |

TravelClass

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| Travel\_Class\_ID | INT | Unique id. | Primary Key |
| Name | Varchar(45) | Name of travelling class. | NOT NULL |
| SeatID | INT | Specific seat ID of that travelling class. | NOT NULL |
| Description | Varchar(100) | Description of that travelling class. | NOT NULL |
| AcID | INT | PK from AirCraft table. | Primary Key |

Flight\_Schedule

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| Flight\_ID | INT | Unique number to identify the flight. | Primary Key |
| FlightDate | DATETIME | Date of flight. | NOT NULL |
| Departure | TIME | Stores the departure time of flight. | NOT NULL |
| Arrival | TIME | Stores the arrival time of flight on destination. | NOT NULL |
| RouteID | INT | Stores unique row id. | Foreign Key |

FlightStatus

|  |  |  |  |
| --- | --- | --- | --- |
| **Field** | **Data Type** | **Description** | **Constraints** |
| Flight\_ID | INT | Flight id from flight table | Foreign key |
| F\_Status | Varchar(120) | If scheduled flight is either delayed or on time. | NOT NULL |