

ER DIAGRAM



RELATIONAL SCHEMA

CREATE TABLE Airline (AirlineID VARCHAR(255) PRIMARY KEY, Name VARCHAR(255));

CREATE TABLE Airport (AirportID VARCHAR(255) PRIMARY KEY, Name VARCHAR(255), Location VARCHAR(255));

CREATE TABLE Aircraft (AircraftID VARCHAR(255) PRIMARY KEY, AirlineID VARCHAR(255), Model VARCHAR(255), Capacity INT, FOREIGN KEY (AirlineID) REFERENCES Airline(AirlineID));

CREATE TABLE Flight (FlightID VARCHAR(255) PRIMARY KEY, AirlineID VARCHAR(255), AircraftID VARCHAR(255), DepartureAirportID VARCHAR(255), ArrivalAirportID VARCHAR(255), DepartureTime DATETIME, ArrivalTime DATETIME, FOREIGN KEY (AirlineID) REFERENCES Airline(AirlineID), FOREIGN KEY (AircraftID) REFERENCES Aircraft(AircraftID), FOREIGN KEY (DepartureAirportID) REFERENCES Airport(AirportID), FOREIGN KEY (ArrivalAirportID) REFERENCES Airport(AirportID));

CREATE TABLE FlightDays (FlightID VARCHAR(255), DayOfWeek VARCHAR(255), PRIMARY KEY (FlightID, DayOfWeek), FOREIGN KEY (FlightID) REFERENCES Flight(FlightID));

CREATE TABLE Customer (CustomerID VARCHAR(255) PRIMARY KEY, Name VARCHAR(255), Email VARCHAR(255) UNIQUE, Password VARCHAR(255), Phone VARCHAR(255), PortfolioDetails TEXT);

CREATE TABLE Ticket (TicketID VARCHAR(255) PRIMARY KEY, CustomerID VARCHAR(255), BookingFee FLOAT, TotalFare FLOAT, DateTimePurchased DATETIME, FlightID VARCHAR(255), SeatNumber VARCHAR(255), Class VARCHAR(255), FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID), FOREIGN KEY (FlightID) REFERENCES Flight(FlightID));

CREATE TABLE FlightWaitingList (WaitID VARCHAR(255) PRIMARY KEY, CustomerID VARCHAR(255), FlightID VARCHAR(255), Timestamp DATETIME, FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID), FOREIGN KEY (FlightID) REFERENCES Flight(FlightID));

CREATE TABLE FlightHistory (HistoryID VARCHAR(255) PRIMARY KEY, CustomerID VARCHAR(255), FlightID VARCHAR(255), DateTimeFlown DATETIME, FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID), FOREIGN KEY (FlightID) REFERENCES Flight(FlightID));

CREATE TABLE CustomerRep (RepID VARCHAR(255) PRIMARY KEY, Name VARCHAR(255), Email VARCHAR(255), Password VARCHAR(255));

CREATE TABLE Question (QuestionID VARCHAR(255) PRIMARY KEY, CustomerID VARCHAR(255), RepID VARCHAR(255), QuestionText VARCHAR(1000), AnswerText VARCHAR(1000), Timestamp DATETIME, FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID), FOREIGN KEY (RepID) REFERENCES CustomerRep(RepID));