

AIRLINE

DATABASE MANAGEMENT SYSTEM

GARNAZ TEAM MEMBERS:

- Lavina Kathambi; Joachim Wambua; Ahmed Meshref; Agnes Fusesse

Industry: Aviation

Scope of the project:

- Our project is focused on the database of Fly Emarits airline only.

Overview

We are looking to develop a system that manages the overall airline operations of Fly Emirates. This system is basically a platform where various data like destination, tickets and employees data is stored and could be used to inform decision making in the company.

The problem we're trying to solve

Being a very busy airline and flying to prime destinations on a daily basis like Tokyo and New York; there is a need for an effective database to be able to keep all the data primarily for future decision making and reference. We are then developing this system to allow an effective way of storing data, quick maneuvering, and accuracy of data retrieved.

Tables

Entity Name	Attributes	Constraints
AirCrafts	<u>Aircraft_ID</u> Aircraft_Number Aircraft_Capacity	Primary key
Route	Route_ID Departure_Airport Destination_Airport Route_Code	Primary key
AirFare	<u>Airfare_ID</u> <u>Route_ID</u> AirfareCurrency	Primary key Foreign key
Flight_Schedule	<u>Flight_ID</u> Flight_Date Departure_Time Arrival_Time <u>Aircraft_ID</u> <u>Airfare_ID</u>	Primary key Foreign key Foreign key
Countries	<u>Country_ID</u> CountryName	Primary key
State	<u>State_ID</u> StateName <u>Country_ID</u>	Primary key Foreign key
Contact_Details	<u>Contact_ID</u> Email Phone_Number Telephone_Number Street <u>State_ID</u>	Primary key Foreign key

Passengers	<u>Passenger_ID</u> Passenger_Name Passport_Number Nationality Date of Birth Address Contact_ID	Primary key Foreign key
Employee	<u>Employee_ID</u> Employee_Name Address Phone_Number Email_Address Job_Type Date of Birth Branch_ID Department	Primary key Foreign key
Transactions	<u>Transaction_ID</u> BookingDate Passenger_ID Flight_ID Employee_ID Amount	Primary key Foreign key Foreign key Foreign key