

# Airport Management System

**Pranav Arora** (2010990537)

**Vishal Kumar** (2010990786)

**Saksham Kaushal** (2010990625)

**Shivam Soni** (2010990665)

Paranav Mahajan (2010990514)



### Introduction

We made this project to make the work easier for the managing team of the airport. With this they can easily access the details of flights, details of passengers travelling, status of flights, Also it can help them Monitor the flight schedule.

## Case study Informal Description CHITKARA



In this system a passenger can see how many seats are available in his particular flight, the flight status, get details of seats and check if he is eligible for discounts.

If an employee travels, he/she is also eligible for employee discounts

#### **TABLES**

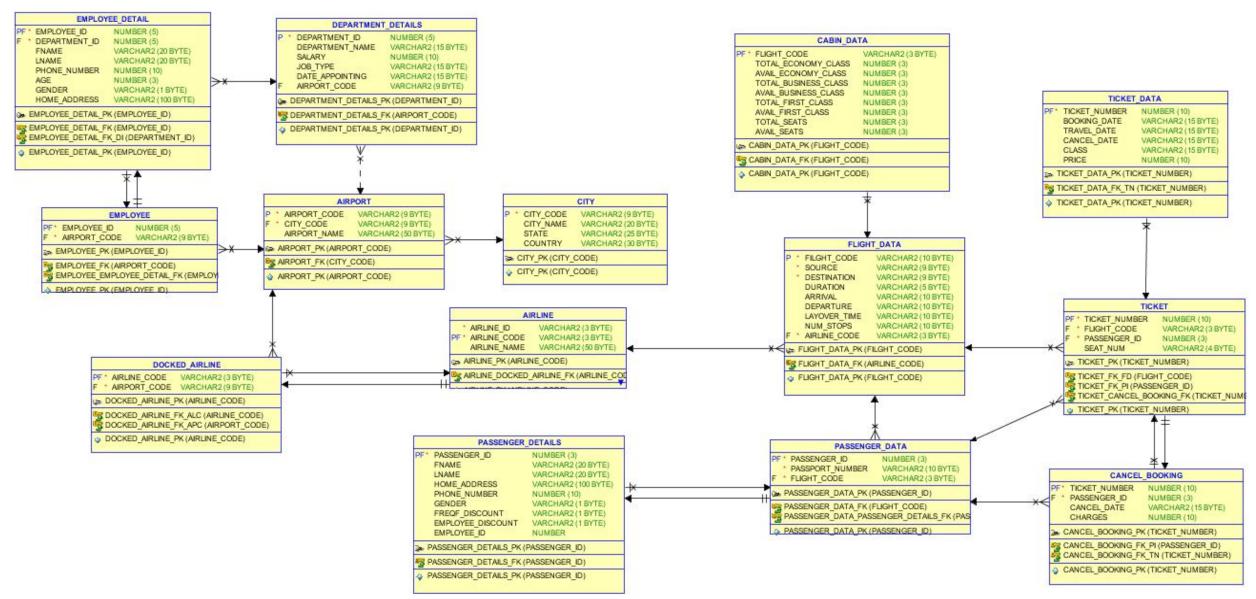


- AIRLINE
- AIRPORT
- CABIN\_DATA
- CANCEL\_BOOKING
- CITY
- DEPARTMENT\_DETAILS
- DOCKED\_AIRLINE

- EMPLOYEE
- EMPLOYEE DETAIL
- FLIGHT\_DATA
- PASSENGER\_DATA
- PASSENGER\_DETAILS
- TICKET
- TICKET\_DATA

# Case Study Logical Model





#### Case Study Physical Model



```
CREATE table "CITY" (
 "CITY CODE" VARCHAR2(9) NOT NULL,
 "CITY NAME" VARCHAR2(20),
 "STATE" VARCHAR2(25),
 "COUNTRY" VARCHAR2(30),
 constraint "CITY_PK" primary key ("CITY_CODE"));
CREATE table "AIRPORT" (
 "AIRPORT_CODE" VARCHAR2(9) NOT NULL,
 "CITY_CODE" VARCHAR2(9) NOT NULL,
 "AIRPORT NAME" VARCHAR2(50),
 constraint "AIRPORT PK" primary key ("AIRPORT CODE"));
CREATE table "TICKET" (
 "TICKET NUMBER" NUMBER(10) NOT NULL,
 "FLIGHT CODE" VARCHAR2(10) NOT NULL,
 "PASSENGER ID" NUMBER(3) NOT NULL,
 "SEAT NUM" VARCHAR2(4),
 constraint "TICKET_PK" primary key ("TICKET_NUMBER"));
```

```
CREATE table "AIRLINE" (
 "AIRLINE ID" VARCHAR2(3) NOT NULL,
 "AIRLINE CODE" VARCHAR2(3) NOT NULL,
 "AIRLINE NAME" VARCHAR2(50),
 constraint "AIRLINE PK" primary key ("AIRLINE CODE"));
CREATE table "DOCKED_AIRLINE" (
 "AIRLINE_CODE" VARCHAR2(3) NOT NULL,
 "AIRPORT_CODE" VARCHAR2(9) NOT NULL,
 constraint "DOCKED AIRLINE PK" primary key
("AIRLINE CODE"));
CREATE table "PASSENGER_DATA" (
 "PASSENGER ID" NUMBER(3) NOT NULL,
 "PASSPORT NUMBER" VARCHAR2(10) NOT NULL,
 "FLIGHT CODE" VARCHAR2(10) NOT NULL,
 constraint "PASSENGER_DATA_PK" primary key
("PASSENGER_ID"));
```

#### **Case Study Interactive Queries**



```
INSERT INTO CITY ("CITY_CODE","CITY_NAME","STATE","COUNTRY") VALUES('LKUS','Louisville','Kentucky','United States');
INSERT INTO AIRLINE ("AIRLINE ID", "AIRLINE NAME", "AIRLINE CODE") VALUES ('AI', 'Air India Limited', '098');
INSERT INTO AIRPORT ("AIRPORT_NAME","AIRPORT_CODE","CITY_CODE") VALUES ('Louisville International Airport','SDF','LKUS');
INSERT INTO DOCKED AIRLINE ("AIRLINE CODE", "AIRPORT CODE") VALUES ('001', 'SDF');
INSERT INTO FLIGHT_DATA
("FLIGHT_CODE","SOURCE","DESTINATION","DURATION","ARRIVAL","DEPARTURE","LAYOVER_TIME","NUM_STOPS","AIRLINE_CODE")
VALUES('AI2014', 'BOM', 'DFW', '24hr', '02:10', '03:15', '3', '1', '098');
BEGIN
 NEW EMPLOYEE PRO('SDF','118','Pratham','arora',5345679512,27,'M','731 Fondren, Houston, TX');
END:
BEGIN
 REM_PASSENGER_PRO(10,123);
END;
BEGIN
NEW_PASSENGER_PRO('A1234568','LH9876','AKSHAT','SHARMA', '7720 MCCALLUM BLVD, APT 1082, DALLAS,
TX',9080367266,'M','N','N','','Economy','a023',15000);
END:
```

## **Output Screen Shots**



```
SQL> BEGIN
2 REM_PASSENGER_PRO(11,124);
3 END;
4 /
PL/SQL procedure successfully completed.
```

PL/SQL procedure successfully completed.

#### **Conclusion and Future Work**



While working on this project, we learnt a lot about creating a database and implementing all the queries related to creation of the database, modifying it and fetching the data from it. We have a good hold on the concepts related to ER diagrams and normalization now.

We also learned about procedures, sequences by this project and triggers.

#### **Future Work**

- We will be adding more features with PI/Sql procedures.
- Also we will try to make it more interactive.

#### **THANK YOU**