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## **Project Deliverable 3: Group 1**

IS 410 Tuesday 4:30 P.M. – 7:00 P.M.

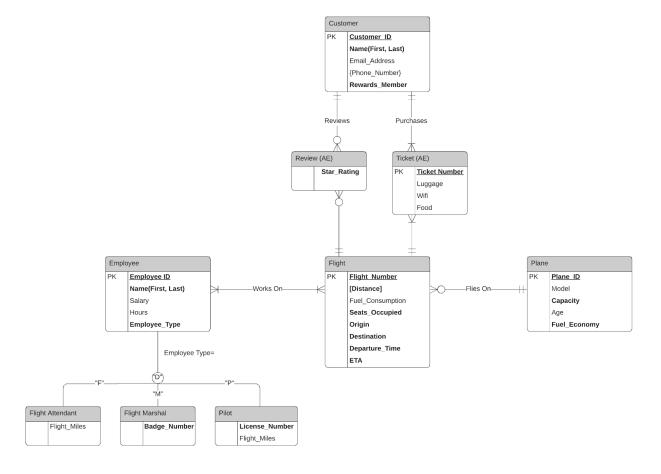
Professor Pan

## **Project Goals:**

For this project, we created a database model for an imaginary airline company to do the following tasks:

- Track airline customers and contact information.
- Store records of each flight.
- Keep track of physical plane inventory and plane attributes.
- Store customer reviews for each flight to better gauge where to improve services.
- Keep records for each employee and what flights they have served on.
- Keep a history of tickets/boarding passes for each customer on each flight.

## Revised Extended Entity Relationship Diagram:



# Revised Normalized Relational Model:



#### Table Creation:

(Drop statements are included to get correct order of deletion when testing)

```
DROP TABLE Pilot_Table;
DROP TABLE Flight Marshal Table;
DROP TABLE Flight_Attendant_Table;
DROP TABLE Employee_Schedule_Table;
DROP TABLE Employee Table;
DROP TABLE Ticket_Table;
DROP TABLE Review Table;
DROP TABLE Flight_Table;
DROP TABLE Plane_Table;
DROP TABLE Phone_Number_Table;
DROP TABLE Customer_Table;
CREATE TABLE Customer Table (
    Customer ID INT NOT NULL,
    First Name VARCHAR(20) NOT NULL,
    Last Name VARCHAR(20) NOT NULL,
    Email_Address VARCHAR(30),
    Rewards Member CHAR(1) NOT NULL
        CHECK (Rewards_Member IN ('T','F')),
    CONSTRAINT Customer_PK PRIMARY KEY (Customer_ID)
);
CREATE TABLE Phone Number Table (
    Customer_ID INT NOT NULL,
    Telephone Number VARCHAR(20) NOT NULL,
```

```
CONSTRAINT Phone_Number_PK PRIMARY KEY (Customer_ID, Telephone_Number),
    CONSTRAINT Phone_Number_FK FOREIGN KEY (Customer_ID)
        REFERENCES Customer Table(Customer ID)
);
CREATE TABLE Plane_Table (
    Plane ID INT NOT NULL,
    Plane Model VARCHAR(20),
    Plane_Capacity INT,
    Age INT,
    --max digits in number (precision) is 10, we want 2 decimal places (scale)
    Fuel_Economy NUMBER(10, 2),
    CONSTRAINT Plane PK PRIMARY KEY (Plane ID)
);
CREATE TABLE Flight Table (
    Flight Number INT NOT NULL,
    Plane_ID INT NOT NULL,
    Seats Occupied INT,
    Origin VARCHAR(20) NOT NULL,
    Destination VARCHAR(20) NOT NULL,
    --Determined Distance should NOT go in separate table, non-key attributes
    --Origin and Destination not unique or primary keys.
    Distance NUMBER(10, 2),
    Departure_Time TIMESTAMP, -- format is 'YYYY-MM-DD HH(24):MI:SS.FF'
    ETA TIMESTAMP,
    Fuel_Consumption NUMBER(10, 2),
    CONSTRAINT Flight_PK PRIMARY KEY (Flight_Number),
    CONSTRAINT Flight FK FOREIGN KEY (Plane ID) REFERENCES Plane Table(Plane ID)
);
CREATE TABLE Review Table (
    Flight Number INT NOT NULL,
    Customer_ID INT NOT NULL,
    Star_Review INT NOT NULL,
    CONSTRAINT Review_PK PRIMARY KEY (Flight_Number, Customer_ID),
    CONSTRAINT Review FK2 FOREIGN KEY (Flight Number)
        REFERENCES Flight_Table(Flight_Number),
    CONSTRAINT Review_FK1 FOREIGN KEY (Customer_ID)
        REFERENCES Customer Table(Customer ID)
);
CREATE TABLE Ticket_Table (
    Ticket Number INT NOT NULL,
    Customer ID INT NOT NULL,
    Flight Number INT NOT NULL,
    Luggage CHAR(1) CHECK (Luggage IN ('T','F')),
    Wifi CHAR(1) CHECK (Wifi IN ('T', 'F')),
    Food CHAR(1) CHECK (Food IN ('T', 'F')),
    CONSTRAINT Ticket_PK PRIMARY KEY (Ticket_Number),
    CONSTRAINT Ticket_FK1 FOREIGN KEY (Customer_ID)
        REFERENCES Customer_Table(Customer_ID),
    CONSTRAINT Ticket FK2 FOREIGN KEY (Flight Number)
        REFERENCES Flight_Table(Flight_Number)
);
CREATE TABLE Employee_Table (
    Employee_ID INT NOT NULL,
    First_Name VARCHAR(20) NOT NULL,
    Last Name VARCHAR(20) NOT NULL,
    Salary NUMBER(10, 2),
```

```
Hours Week INT,
    Employee_Type VARCHAR(10)
        CHECK (Employee Type IN ('Attendant', 'Marshal', 'Pilot')),
    CONSTRAINT Employee_PK PRIMARY KEY (Employee_ID)
);
CREATE TABLE Employee Schedule Table (
    Flight Number INT NOT NULL,
    Employee_ID INT NOT NULL,
    CONSTRAINT Employee_Schedule_PK PRIMARY KEY (Flight_Number, Employee_ID),
    CONSTRAINT Employee_Schedule_FK1 FOREIGN KEY (Flight_Number)
        REFERENCES Flight_Table(Flight_Number),
    CONSTRAINT Employee_Schedule_FK2 FOREIGN KEY (Employee_ID)
        REFERENCES Employee_Table(Employee_ID)
);
CREATE TABLE Flight Attendant Table (
    Employee_ID INT NOT NULL,
    Flight Miles INT,
    CONSTRAINT Flight_Attendant_PK PRIMARY KEY (Employee_ID),
    CONSTRAINT Flight Attendant FK FOREIGN KEY (Employee ID)
        REFERENCES Employee Table(Employee ID)
);
CREATE TABLE Flight_Marshal_Table (
    Employee ID INT NOT NULL,
    Badge_Number INT NOT NULL,
    CONSTRAINT Flight_Marshal_PK PRIMARY KEY (Employee_ID),
    CONSTRAINT Flight Marshal FK FOREIGN KEY (Employee ID)
        REFERENCES Employee_Table(Employee_ID)
);
CREATE TABLE Pilot_Table (
    Employee_ID INT NOT NULL,
    License_Number INT NOT NULL,
    Flight Miles INT,
    CONSTRAINT Pilot PK PRIMARY KEY (Employee ID),
    CONSTRAINT Pilot FK FOREIGN KEY (Employee ID)
        REFERENCES Employee Table(Employee ID)
);
Data Input:
(Delete statements are included for adding data anew when script is run.)
DELETE FROM Pilot Table;
DELETE FROM Flight_Marshal_Table;
DELETE FROM Flight_Attendant_Table;
DELETE FROM Employee Schedule Table;
DELETE FROM Employee_Table;
DELETE FROM Ticket_Table;
DELETE FROM Review_Table;
DELETE FROM Flight Table;
DELETE FROM Plane Table;
DELETE FROM Phone_Number_Table;
DELETE FROM Customer_Table;
--Insert Customer entries into Customer Table
--Format: Customer ID, First Name, Last Name, Email Address, Rewards Member
```

```
INSERT INTO Customer_Table VALUES(1, 'Laurence', 'Slater', 'Islater@gmail.com', 'T');
INSERT INTO Customer_Table VALUES(2, 'Leigh', 'Curry', 'lcurry@yahoo.com', 'F');
INSERT INTO Customer_Table VALUES(3, 'Elena', 'Freeman', 'efreeman@outlook.com', 'T');
INSERT INTO Customer_Table VALUES(4, 'Tracy', 'Nelson', 'tnelson@aol.com', 'F');
INSERT INTO Customer_Table VALUES(5, 'Megan', 'Estrada', 'mestrada@gmail.com', 'F');
INSERT INTO Customer_Table VALUES(6, 'Alex', 'Cole', 'acole@yahoo.com', 'T');
INSERT INTO Customer_Table VALUES(7, 'Frank', 'Obrien', 'fobrien@outlook.com', 'F');
INSERT INTO Customer_Table VALUES(8, 'Serena', 'Terry', 'sterry@aol.com', 'T');
INSERT INTO Customer_Table VALUES(9, 'Judy', 'Blair', 'jblair@gmail.com', 'T');
INSERT INTO Customer_Table VALUES(10, 'Fred', 'Robertson', 'frobertson@yahoo.com', 'F');
INSERT INTO Customer_Table VALUES(11, 'James', 'Miller', 'fmiller@yahoo.com', 'F');
--Insert Phone Number entries into Phone Number Table
--Format: Customer ID, Phone Number
INSERT INTO Phone_Number_Table VALUES(1, '314-373-8763');
INSERT INTO Phone_Number_Table VALUES(1, '262-833-3277');
INSERT INTO Phone_Number_Table VALUES(2, '316-352-2197');
INSERT INTO Phone_Number_Table VALUES(3, '419-956-3252');
INSERT INTO Phone_Number_Table VALUES(3, '762-245-1884');
INSERT INTO Phone Number Table VALUES(4, '774-414-5184');
INSERT INTO Phone Number Table VALUES(5, '509-773-8365');
INSERT INTO Phone_Number_Table VALUES(5, '515-893-1045');
INSERT INTO Phone Number Table VALUES(6, '253-948-6021');
INSERT INTO Phone_Number_Table VALUES(7, '727-860-2460');
INSERT INTO Phone Number Table VALUES(7, '254-624-6078');
INSERT INTO Phone_Number_Table VALUES(8, '434-308-1694');
INSERT INTO Phone Number Table VALUES(9, '412-849-6895');
INSERT INTO Phone_Number_Table VALUES(9, '570-865-1217');
INSERT INTO Phone_Number_Table VALUES(10, '207-373-1953');
--Insert Plane entries into Plane Table
--Data from https://en.wikipedia.org/wiki/Fuel_economy_in_aircraft
--Format: Plane ID, Plane Model, Plane Capacity, Age, Fuel Economy (in mpg per seat)
INSERT INTO Plane_Table VALUES(1, 'Airbus A319', 124, 8, 80);
INSERT INTO Plane_Table VALUES(2, 'Airbus A319', 124, 10, 80);
INSERT INTO Plane_Table VALUES(3, 'Boeing 737 Max-7', 140, 5, 121);
INSERT INTO Plane_Table VALUES(4, 'Boeing 737 Max-7', 140, 6, 121);
INSERT INTO Plane_Table VALUES(5, 'Boeing 737 Max-7', 140, 4, 121);
INSERT INTO Plane_Table VALUES(6, 'Airbus A220-300', 135, 7, 127);
INSERT INTO Plane Table VALUES(7, 'Airbus A220-300', 135, 9, 127);
INSERT INTO Plane Table VALUES(8, 'Airbus A340-300', 262, 15, 79);
INSERT INTO Plane_Table VALUES(9, 'Boeing 787-8', 238, 10, 88);
INSERT INTO Plane_Table VALUES(10, 'Boeing 787-8', 238, 11, 88);
-- Insert Flight entries into Flight Table
--Data from https://www.airfarewatchdog.com/blog/44259160/these-are-the-10-busiest-air-routes-in-
the-u-s/
--Format: Flight Number, Plane ID, Seats Occupied, Origin, Destination, Distance,
--Departure_Time, ETA, Fuel_Consumption
INSERT INTO Flight_Table VALUES(1, 2, 120, 'Atlanta', 'New York City', 866.20,
    TIMESTAMP '2021-4-3 11:30:00.00 EST', TIMESTAMP '2021-4-3 13:45:00.00 EST', 8100);
INSERT INTO Flight_Table VALUES(2, 10, 234, 'Los Angeles', 'New York City', 2789.4,
    TIMESTAMP '2021-4-2 8:00:00.00 EST', TIMESTAMP '2021-4-2 13:11:00.00 EST', 18660);
INSERT INTO Flight_Table VALUES(3, 7, 127, 'Atlanta', 'Miami', 639.8,
    TIMESTAMP '2021-4-4 14:30:00.00 EST', TIMESTAMP '2021-4-4 16:20:00.00 EST', 6600);
INSERT INTO Flight_Table VALUES(4, 5, 139, 'Denver', 'Los Angeles', 1016.7,
    TIMESTAMP '2021-4-3 7:00:00.00 EST', TIMESTAMP '2021-4-3 9:33:00.00 EST', 9180);
```

```
INSERT INTO Flight_Table VALUES(5, 3, 122, 'Los Angeles', 'Seattle', 1135.1,
    TIMESTAMP '2021-4-2 14:30:00.00 EST', TIMESTAMP '2021-4-2 17:22:00.00 EST', 10320);
INSERT INTO Flight_Table VALUES(6, 9, 231, 'Atlanta', 'Orlando', 441.6,
    TIMESTAMP '2021-4-4 9:00:00.00 EST', TIMESTAMP '2021-4-4 10:25:00.00 EST', 5100);
INSERT INTO Flight_Table VALUES(7, 8, 228, 'New York', 'Chicago', 790.5,
    TIMESTAMP '2021-4-3 10:30:00.00 EST', TIMESTAMP '2021-4-3 12:59:00.00 EST', 8940);
INSERT INTO Flight Table VALUES(8, 4, 137, 'Los Angeles', 'San Francisco', 381.9,
    TIMESTAMP '2021-4-4 7:00:00.00 EST', TIMESTAMP '2021-4-4 8:17:00.00 EST', 4620);
INSERT INTO Flight_Table VALUES(9, 6, 126, 'Las Vegas', 'Los Angeles', 270.3,
    TIMESTAMP '2021-4-2 14:30:00.00 EST', TIMESTAMP '2021-4-2 15:43:00.00 EST', 4380);
INSERT INTO Flight_Table VALUES(10, 1, 124, 'Los Angeles', 'Seattle', 1135.1,
    TIMESTAMP '2021-4-2 15:00:00.00 EST', TIMESTAMP '2021-4-2 17:52:00.00 EST', 10320);
--Insert Review entries into Review Table
--Data from https://www.kaggle.com/crowdflower/twitter-airline-sentiment?select=Tweets.csv
--Format: Flight_Number, Customer_ID, Star_Review
INSERT INTO Review_Table VALUES(1, 8, 3);
INSERT INTO Review_Table VALUES(2, 2, 3);
INSERT INTO Review_Table VALUES(3, 10, 2);
INSERT INTO Review Table VALUES(4, 6, 1);
INSERT INTO Review Table VALUES(5, 4, 5);
INSERT INTO Review_Table VALUES(6, 1, 3);
INSERT INTO Review Table VALUES(7, 3, 5);
INSERT INTO Review Table VALUES(8, 5, 2);
INSERT INTO Review Table VALUES(9, 7, 3);
INSERT INTO Review_Table VALUES(10, 9, 2);
--Insert Ticket entries into Ticket Table
--Format: Ticket_Number, Customer_ID, Flight_Number, Luggage, Wifi, Food
INSERT INTO Ticket_Table VALUES(1, 8, 1, 'T', 'F', 'F');
INSERT INTO Ticket_Table VALUES(2, 2, 2, 'T', 'T', 'F');
INSERT INTO Ticket_Table VALUES(3, 10, 3, 'T', 'T', 'T');
INSERT INTO Ticket Table VALUES(4, 6, 4, 'F', 'T', 'F');
INSERT INTO Ticket_Table VALUES(5, 4, 5, 'F', 'T', 'T');
INSERT INTO Ticket_Table VALUES(6, 1, 6, 'T', 'T');
INSERT INTO Ticket_Table VALUES(7, 3, 7, 'F', 'F', 'T');
INSERT INTO Ticket_Table VALUES(8, 5, 8, 'T', 'F', 'T');
INSERT INTO Ticket_Table VALUES(9, 7, 9, 'T', 'T', 'T');
INSERT INTO Ticket_Table VALUES(10, 9, 10, 'F', 'F');
INSERT INTO Ticket Table VALUES(11, 10, 8, 'T', 'F', 'F');
--Insert Employee entries into Employee_Table
--Data from https://www.salary.com/research/salary/alternate/airline-pilot-salary
--Format: Employee_ID, First_Name, Last_Name, Salary, Hours_week, Employee_Type
INSERT INTO Employee_Table VALUES(1, 'Osman', 'Thorne', 80230, 34, 'Attendant');
INSERT INTO Employee_Table VALUES(2, 'Krystian', 'Ruiz', 157258, 20, 'Pilot');
INSERT INTO Employee_Table VALUES(3, 'Arandeep', 'Mcconnell', 89147, 39, 'Attendant');
INSERT INTO Employee Table VALUES(4, 'Earl', 'Huerta', 93886, 33, 'Attendant');
INSERT INTO Employee_Table VALUES(5, 'Tomos', 'Braun', 127901, 25, 'Marshal');
INSERT INTO Employee_Table VALUES(6, 'Tilly-Mae', 'Wilder', 81408, 21, 'Marshal');
INSERT INTO Employee_Table VALUES(7, 'Ridwan', 'Alcock', 155440, 9, 'Pilot');
INSERT INTO Employee_Table VALUES(8, 'Tobias', 'Goodman', 132241, 13, 'Pilot');
INSERT INTO Employee Table VALUES(9, 'Eleanor', 'Thorpe', 82340, 26, 'Marshal');
INSERT INTO Employee Table VALUES(10, 'Doug', 'Miller', 34768, 35, 'Attendant');
--Insert Flight and Employee entries into Employee_Schedule_Table
--Format: Flight Number, Employee ID
```

```
INSERT INTO Employee Schedule Table VALUES(1, 7);
INSERT INTO Employee_Schedule_Table VALUES(2, 3);
INSERT INTO Employee Schedule Table VALUES(3, 9);
INSERT INTO Employee Schedule Table VALUES(4, 10);
INSERT INTO Employee Schedule Table VALUES(5, 8);
INSERT INTO Employee Schedule Table VALUES(6, 4);
INSERT INTO Employee Schedule Table VALUES(7, 6);
INSERT INTO Employee Schedule Table VALUES(8, 5);
INSERT INTO Employee_Schedule_Table VALUES(9, 1);
INSERT INTO Employee Schedule Table VALUES(10, 2);
--Insert Flight Attendant entries into Flight_Attendant_Table
--Data from https://www.flyertalk.com/forum/united-airlines-mileageplus/1447393-there-chance-i-
fly-more-year-than-ux-flight-attendant.html
--Format: Employee_ID, Flight_Miles
INSERT INTO Flight_Attendant_Table VALUES(1, 176262);
INSERT INTO Flight Attendant Table VALUES(3, 122402);
INSERT INTO Flight_Attendant_Table VALUES(4, 182312);
--Insert Flight Marshal entries into Flight Marshal Table
--Format: Employee ID, Badge Number
INSERT INTO Flight_Marshal_Table VALUES(5, 1);
INSERT INTO Flight Marshal Table VALUES(6, 2);
INSERT INTO Flight_Marshal_Table VALUES(9, 3);
--Insert Pilot entries into Pilot_Table
--Data from
https://www.airliners.net/forum/viewtopic.php?t=162863#:~:text=A%20more%20realistic%20figure%20is,
miles%20per%20year%20in%20flight.
--Format: Employee ID, License Number, Flight Miles
INSERT INTO Pilot_Table VALUES(2, 1, 243061);
INSERT INTO Pilot_Table VALUES(7, 2, 275247);
INSERT INTO Pilot Table VALUES(8, 3, 365271);
```

## Queries:

## **Update Queries:**

--Increase Employee 7's salary by \$10,000 (entry before and after shown) UPDATE Employee\_Table SET Salary = Salary + 10000 WHERE Employee\_ID = 7;

EMPLOYEE_ID FIRST_NAME		LAST_NAME	SALARY	HOURS_WEEK	EMPLOYEE_T
7	Ridwan	Alcock	155440	9	Pilot

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY	HOURS_WEEK	EMPLOYEE_T
7 Ridwan		Alcock	165440	9	Pilot

--Change Customer 4's status as a Rewards Member to True. (entry before and after shown) UPDATE Customer\_Table SET Rewards\_Member = 'T' WHERE Customer\_ID = 4;

CUSTOMER_ID FIRST_NAME		LAST_NAME	EMAIL_ADDRESS	R
4	Tracy	Nelson	tnelson@aol.com	F

	CUSTOMER_ID	FIRST_NAME	LAST_NAME	EMAIL_ADDRESS	R
4 Tracy		Nelson	tnelson@aol.com	Т	

## **Group By Queries:**

--Identify the minimum hours per week worked by an employee in each employee type in descending
--order. (Group By, Order By)
SELECT Employee\_Type, MIN(Hours\_Week)
FROM Employee\_Table
GROUP BY Employee\_Type
ORDER BY MIN(Hours\_Week) DESC;

EMPLOYEE_T	MIN(HOURS_WEEK)
Attendant	33
Marshal	21
Pilot	9

--Identify the names of Boeing plane models that consist of more than two units
--in the airline fleet's operation. (Group By, Having, Like)
SELECT Plane\_Model, COUNT(\*)
FROM Plane\_Table
WHERE Plane\_Model LIKE '%Boeing%'
GROUP BY Plane\_Model
HAVING COUNT(\*) >= 2;

PLANE_MODEL	COUNT(*)
Boeing 737 Max-7	3
Boeing 787-8	2

#### Join Queries:

#### Self Join:

--Return flight numbers and departure times for flights that depart after --Flight 7. (Self Join)
--Flight 7 and the results of the query are shown.

SELECT F2.Flight\_Number, F2.Departure\_Time
FROM Flight\_Table F1, Flight\_Table F2

WHERE F1.Flight\_Number = 7 AND F2.Departure\_Time > F1.Departure\_Time;

FLIGHT_NUMBER	PLANE_ID	SEATS_OCCUPIED	ORIGIN	DESTINATION	DISTANCE	DEPARTURE_TIME	ETA	FUEL_CONSUMPTION
7	8	228	New York	Chicago	790.5	10.30.00.000000	03-APR-21 12.59.00.000000 PM	8940

FLIGHT_NUMBER	DEPARTURE_TIME
1	03-APR-21 11.30.00.000000 AM
3	04-APR-21 02.30.00.000000 PM
6	04-APR-21 09.00.00.000000 AM
8	04-APR-21 07.00.00.000000 AM

### Multi-Table Join:

- --Identify customers who have tickets to flights departing from Los Angeles.
- --(Natural Join, Multitable Join)

SELECT C.Customer\_ID, C.First\_Name, C.Last\_Name

FROM Customer\_Table C, Ticket\_Table T, Flight\_Table F
WHERE T.Customer\_ID = C.Customer\_ID
AND T.Flight\_Number = F.Flight\_Number
AND Origin = 'Los Angeles';

CUSTOMER_ID	FIRST_NAME	LAST_NAME
2	Leigh	Curry
4	Tracy	Nelson
5	Megan	Estrada
9	Judy	Blair
10	Fred	Robertson

## Outer Join:

--Identify the names of customers for each ticket, and those who do not have
--a ticket. Returns rows in the customer table even if they have no ticket.
--(Left Outer Join) Notice James Miller has no ticket entry associated with him.
SELECT First\_Name, Last\_Name, Ticket\_Number
FROM Customer\_Table, Ticket\_Table
WHERE Ticket\_Table.Customer\_ID (+) = Customer\_Table.Customer\_ID
ORDER BY Ticket\_Number;

FIRST_NAME	LAST_NAME	TICKET_NUMBER
Serena	Terry	1
Leigh	Curry	2
Fred	Robertson	3
Alex	Cole	4
Tracy	Nelson	5
Laurence	Slater	6
Elena	Freeman	7
Megan	Estrada	8
Frank	Obrien	9
Judy	Blair	10
Fred	Robertson	11
James	Miller	

### Natural Join:

--Identify email addresses of customers that left a review of less than 3 stars
--to contact them about their negative experience. (Natural Join)
SELECT Star\_Review, Flight\_Number, Email\_Address
FROM Customer\_Table C, Review\_Table R
WHERE R.Customer ID = C.Customer ID AND Star Review < 3;</pre>

STAR_REVIEW	FLIGHT_NUMBER EMAIL_ADDRESS		
2	8 mestrada@gmail.com		
1	4 acole@yahoo.com		
2	10 jblair@gmail.com		
2	3 frobertson@yahoo.com		

## Additional Queries Used in Code Demonstration:

--Count the number of rewards and non-rewards member customers. (Group By)
SELECT Rewards\_Member, COUNT(\*)
FROM Customer\_Table
GROUP BY Rewards\_Member;

R	COUNT(*)
Τ	6
F	5

--Find the minimum salary for an employee of the airline. (Sub-query)
SELECT Employee\_ID, First\_Name, Last\_Name, Salary
FROM Employee\_Table
WHERE Salary = (SELECT MIN(Salary) FROM Employee Table);

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	SALARY
10 Doug		Miller	34768

--Find plane IDs and models of planes that departed from Los Angeles (Natural Join)
SELECT P.Plane\_ID, Plane\_Model
FROM Plane\_Table P, Flight\_Table F
WHERE F.Plane\_ID = P.Plane\_ID
AND Origin = 'Los Angeles';

PLANE_ID	PLANE_MODEL	
1	Airbus A319	
3	Boeing 737 Max-7	
4	Boeing 737 Max-7	
10	Boeing 787-8	

--Find the badge number of every Flight Marshal SELECT E.Employee\_ID, E.First\_Name, E.Last\_Name, Badge\_Number from Employee\_Table E, Flight\_Marshal\_Table M where M.Employee\_ID = E.Employee\_ID;

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	BADGE_NUMBER
5	Tomos	Braun	1
6	Tilly-Mae	Wilder	2
9	Eleanor	Thorpe	3