--Ahmed Mohamed Youseff

USE DWHAIRLINE

----Create Dimension Tables

CREATE TABLE TICKETS (

TICKET\_PK INT PRIMARY KEY,

TICKET\_ID VARCHAR(100),

TICKETS\_CLASS VARCHAR(100),

TICKETS\_FARE NUMERIC,

SEAT\_NUM NUMERIC(4),

UPGRADE\_CHECK NUMERIC(1) );

CREATE TABLE PROMOTIONS (

PROMOTION\_PK INT PRIMARY KEY,

PROMOTION\_CODE VARCHAR(100),

PROMOTION\_NAME VARCHAR(100),

PROMOTION\_TYPE VARCHAR(100),

PROMOTION\_STARTDATE DATE,

PROMOTION\_ENDDATE DATE,

PROMOTION\_VALUE NUMERIC(8,2) );

CREATE TABLE T\_DATE (

DATE\_PK INT PRIMARY KEY,

FULL\_DATE DATE,

CALENDAR\_YEAR NUMERIC(4),

QUARTER NUMERIC(1),

CALENDAR\_MONTH NUMERIC(2),

WEEK\_IN\_YEAR NUMERIC(3),

WEEK\_IN\_MONTH NUMERIC(2),

DAY\_IN\_WEEK NUMERIC(1),

DAY\_IN\_MONTH NUMERIC(2),

DAY\_IN\_YEAR NUMERIC(4),

DAY\_NAME VARCHAR(100));

CREATE TABLE AIRCRAFTS (

AIRPLANE\_PK INT PRIMARY KEY,

AIRPLANE\_CODE VARCHAR(100),

AIRPLANE\_TYPE VARCHAR(100),

AIRPLANE\_CAPACITY NUMERIC(6) );

CREATE TABLE FLIGHTS(

FLIGHT\_PK INT PRIMARY KEY,

FLIGHT\_NUMBER NUMERIC,

FLIGHT\_ARRIVAL\_CITY VARCHAR(100),

FLIGHT\_DEPARTURE\_CITY VARCHAR(100),

ARRIVAL\_TIME DATE,

DEPARTURE\_TIME DATE,

FLIGHT\_DURATION NUMERIC);

CREATE TABLE PASSENGERS(

PASSENGER\_PK INT PRIMARY KEY,

PASSENGER\_ID NUMERIC,

PASSENGER\_TYPE VARCHAR(100),

PASSENGER\_NAME VARCHAR(100),

CITY VARCHAR(100),

STATE VARCHAR(100));

CREATE TABLE RESERVATIONS\_CHANNEL(

RESERVATION\_PK INT PRIMARY KEY,

RESERVATION\_CHANNEL VARCHAR(100));

CREATE TABLE PROBLEMS(

PROBLEM\_PK INT PRIMARY KEY,

PROBLEM\_SEVERITY VARCHAR(100),

PASSENGER\_COMPLAINT VARCHAR(100),

INTERACTION\_TYPE VARCHAR(100));

-- Create Fact Tables

CREATE TABLE MARKETING(

FLIGHT\_FK INT,

PROMOTION\_FK INT,

TICKET\_FK INT,

PASSENGER\_FK INT,

DATE\_FK INT,

GOLD\_PASSENGERS NUMERIC,

ALUMINUM\_PASSENGERS NUMERIC,

PLATINUM\_PASSENGERS NUMERIC,

TITANIUM\_PASSENGERS NUMERIC,

UPGRADED\_TICKETS NUMERIC);

CREATE TABLE CUSTOMER\_CARE(

FLIGHT\_FK INT,

DATE\_FK INT,

AIRPLANE\_FK INT,

PROBLEM\_FK INT,

PASSENGER\_FK INT,

COMPLAINTS\_PER\_FLIGHT NUMERIC,

COMPLAINTS\_PER\_FLIGHT\_RATE NUMERIC,

COMPLAINTS\_PER\_AIRPLANE NUMERIC,

COMPLAINTS\_PER\_YEAR NUMERIC);

CREATE TABLE RESERVATIONS(

FLIGHT\_FK INT,

TICKET\_FK INT,

DATE\_FK INT,

PASSENGER\_FK INT,

RESERVATION\_FK INT,

AIRPLANE\_FK INT,

TOTAL\_PROFIT NUMERIC);