DbDDL.sql

DROP DATABASE IF EXISTS AIRWAYS;

CREATE DATABASE IF NOT EXISTS AIRWAYS;

DROP TABLE IF EXISTS AIRWAYS.PASSENGER;

CREATE TABLE AIRWAYS.PASSENGER

(SSN bigint(10) NOT NULL,Name varchar(255) NOT NULL,ADDRESS varchar(255) NOT NULL,EMAILID varchar(255) NOT NULL,PHONENUMBER bigint(10) NOT NULL, PRIMARY KEY(SSN));

DROP TABLE IF EXISTS AIRWAYS.TICKET;

CREATE TABLE AIRWAYS.TICKET

(TICKETID bigint(7) NOT NULL,SEATNUMBER bigint(3) NOT NULL,SSN bigint(10) NOT NULL,FLIGHTNUMBER bigint(5) NOT NULL, PRIMARY KEY(TICKETID),FOREIGN KEY(SSN) REFERENCES PASSENGER(SSN),FOREIGN KEY(FLIGHTNUMBER) REFERENCES FLIGHT(FLIGHTNUMBER));

DROP TABLE IF EXISTS AIRWAYS.PAYMENT;

CREATE TABLE AIRWAYS.PAYMENT

(PAYMENTID bigint(10) NOT NULL,PAYMENTAMOUNT bigint NOT NULL,SSN bigint(10) NOT NULL,TICKETID bigint(7) NOT NULL, PRIMARY KEY(PAYMENTID),FOREIGN KEY(SSN) REFERENCES PASSENGER(SSN),FOREIGN KEY(TICKETID) REFERENCES TICKET(TICKETID));

DROP TABLE IF EXISTS AIRWAYS.CARDDETAILS;

CREATE TABLE AIRWAYS.CARDDETAILS

(CARDNUMBER bigint(12) NOT NULL,EXPIRATIONDATE date NOT NULL,CVV bigint(4) NOT NULL,PAYMENTID bigint(10) NOT NULL, PRIMARY KEY(CARDNUMBER),FOREIGN KEY(PAYMENTID) REFERENCES PAYMENT(PAYMENTID));

DROP TABLE IF EXISTS AIRWAYS.FLIGHT;

CREATE TABLE AIRWAYS.FLIGHT

(FLIGHTNUMBER bigint(5) NOT NULL,FLIGHTTYPE varchar(255) NOT NULL,CAPACITY bigint(3) NOT NULL,SSN bigint(10) NOT NULL,EMPLOYEEID bigint(7) NOT NULL, PRIMARY KEY(FLIGHTNUMBER),FOREIGN KEY(SSN) REFERENCES EMPLOYEE(SSN),FOREIGN KEY(EMPLOYEEID) REFERENCES EMPLOYEE(EMPLOYEEID));

DROP TABLE IF EXISTS AIRWAYS.FLIGHTSCHEDULE;

CREATE TABLE AIRWAYS.FLIGHTSCHEDULE

(ARRIVALTIME time NOT NULL,DEPARTURETIME time NOT NULL,ARRIVALLOCATION varchar(255) NOT NULL,DEPARTURELOCATION varchar(255) NOT NULL,FLIGHTNUMBER bigint(5) NOT NULL,FOREIGN KEY(FLIGHTNUMBER) REFERENCES FLIGHT(FLIGHTNUMBER));

DROP TABLE IF EXISTS AIRWAYS.AIRPORT;

CREATE TABLE AIRWAYS.AIRPORT

(AIRPORTID bigint(4) NOT NULL,AIRPORTNAME varchar(255) NOT NULL,LOCATION varchar(255) NOT NULL,SSN bigint(10) NOT NULL,EMPLOYEEID bigint(7) NOT NULL,FLIGHTNUMBER bigint(5) NOT NULL, PRIMARY KEY(AIRPORTID),FOREIGN KEY(SSN) REFERENCES EMPLOYEE(SSN),FOREIGN KEY(EMPLOYEEID) REFERENCES EMPLOYEE(EMPLOYEEID),FOREIGN KEY(FLIGHTNUMBER) REFERENCES FLIGHT(FLIGHTNUMBER));

DROP TABLE IF EXISTS AIRWAYS.EMPLOYEE;

CREATE TABLE AIRWAYS.EMPLOYEE

(SSN bigint(10) NOT NULL,EMPLOYEEID bigint(7) NOT NULL,NAME varchar(255) NOT NULL,PHONENUMBER bigint(10) NOT NULL,EMAILID varchar(255) NOT NULL, PRIMARY KEY(SSN));

DROP VIEW IF EXISTS AIRWAYS.PASSENGERRECORD;

CREATE VIEW AIRWAYS.PASSENGERRECORD AS SELECT SSN,COUNT(\*) AS TIMES\_PASSENGER\_TRAVELLED FROM AIRWAYS.TICKET GROUP BY SSN;

dbDML.sql

/\*PASSENGER TABLE \*/

INSERT INTO AIRWAYS.PASSENGER (SSN, NAME, ADDRESS, EMAILID, PHONENUMBER)

VALUES ('1111111111','SAMIP','ARLINGTON','SAMIP@GMAIL.COM','1234567890');

INSERT INTO AIRWAYS.PASSENGER (SSN, NAME, ADDRESS, EMAILID, PHONENUMBER)

VALUES ('2222222222','NIRMIT','ARLINGTON','NIRMIT@GMAIL.COM','2345678901');

INSERT INTO AIRWAYS.PASSENGER (SSN, NAME, ADDRESS, EMAILID, PHONENUMBER)

VALUES ('3333333333','AASHU','DALLAS','AASHU@GMAIL.COM','3456789012');

INSERT INTO AIRWAYS.PASSENGER (SSN, NAME, ADDRESS, EMAILID, PHONENUMBER)

VALUES ('4444444444','ABHINN','AHMEDABAD','ABHINN@GMAIL.COM','4567890123');

INSERT INTO AIRWAYS.PASSENGER (SSN, NAME, ADDRESS, EMAILID, PHONENUMBER)

VALUES ('5555555555','AKSHIL','LONDON','AKHIL@GMAIL.COM','5678901234');

/\*TICKET TABLE \*/

INSERT INTO AIRWAYS.TICKET (TICKETID, SEATNUMBER, SSN, FLIGHTNUMBER)

VALUES ('1234567','123','1111111111','00000');

INSERT INTO AIRWAYS.TICKET (TICKETID, SEATNUMBER, SSN, FLIGHTNUMBER)

VALUES ('2345678','456','2222222222','00001');

INSERT INTO AIRWAYS.TICKET (TICKETID, SEATNUMBER, SSN, FLIGHTNUMBER)

VALUES ('3456789','789','3333333333','00002');

INSERT INTO AIRWAYS.TICKET (TICKETID, SEATNUMBER, SSN, FLIGHTNUMBER)

VALUES ('4567890','963','4444444444','00003');

INSERT INTO AIRWAYS.TICKET (TICKETID, SEATNUMBER, SSN, FLIGHTNUMBER)

VALUES ('5678901','741','5555555555','00004');

/\*PAYMENT TABLE\*/

INSERT INTO AIRWAYS.PAYMENT (PAYMENTID, PAYMENTAMOUNT, SSN, TICKETID)

VALUES ('1112223330','1000','1111111111','1234567');

INSERT INTO AIRWAYS.PAYMENT (PAYMENTID, PAYMENTAMOUNT, SSN, TICKETID)

VALUES ('4455332211','2000','2222222222','2345678');

INSERT INTO AIRWAYS.PAYMENT (PAYMENTID, PAYMENTAMOUNT, SSN, TICKETID)

VALUES ('2233558844','1500','3333333333','3456789');

INSERT INTO AIRWAYS.PAYMENT (PAYMENTID, PAYMENTAMOUNT, SSN, TICKETID)

VALUES ('6644402114','3000','4444444444','4567890');

INSERT INTO AIRWAYS.PAYMENT (PAYMENTID, PAYMENTAMOUNT, SSN, TICKETID)

VALUES ('7788998877','2500','5555555555','5678901');

/\*CARDDETAILS TABLE\*/

INSERT INTO AIRWAYS.CARDDETAILS (CARDNUMBER, EXPIRATIONDATE, CVV, PAYMENTID)

VALUES ('0000000000001','2019-12-01','111','1112223330');

INSERT INTO AIRWAYS.CARDDETAILS (CARDNUMBER, EXPIRATIONDATE, CVV, PAYMENTID)

VALUES ('0000000000002','2024-11-01','222','4455332211');

INSERT INTO AIRWAYS.CARDDETAILS (CARDNUMBER, EXPIRATIONDATE, CVV, PAYMENTID)

VALUES ('0000000000003','2021-10-01','333','2233558844');

INSERT INTO AIRWAYS.CARDDETAILS (CARDNUMBER, EXPIRATIONDATE, CVV, PAYMENTID)

VALUES ('0000000000004','2022-09-01','444','6644402114');

INSERT INTO AIRWAYS.CARDDETAILS (CARDNUMBER, EXPIRATIONDATE, CVV, PAYMENTID)

VALUES ('0000000000005','2020-07-01','555','7788998877');

/\*FLIGHT TABLE\*/

INSERT INTO AIRWAYS.FLIGHT (FLIGHTNUMBER, FLIGHTTYPE, CAPACITY, SSN, EMPLOYEEID)

VALUES ('00000','SMALL','500','9999999999','7418529');

INSERT INTO AIRWAYS.FLIGHT (FLIGHTNUMBER, FLIGHTTYPE, CAPACITY, SSN, EMPLOYEEID)

VALUES ('00001','MEDIUM','700','8888888888','7539514');

INSERT INTO AIRWAYS.FLIGHT (FLIGHTNUMBER, FLIGHTTYPE, CAPACITY, SSN, EMPLOYEEID)

VALUES ('00002','BIG','900','7777777777','1258746');

INSERT INTO AIRWAYS.FLIGHT (FLIGHTNUMBER, FLIGHTTYPE, CAPACITY, SSN, EMPLOYEEID)

VALUES ('00003','SMALL','500','6666666666','7896325');

INSERT INTO AIRWAYS.FLIGHT (FLIGHTNUMBER, FLIGHTTYPE, CAPACITY, SSN, EMPLOYEEID)

VALUES ('00004','BIG','900','9998887775','8547632');

/\*FLIGHTSCHEDULE TABLE\*/

INSERT INTO AIRWAYS.FLIGHTSCHEDULE (ARRIVALTIME, DEPARTURETIME, ARRIVALLOCATION, DEPARTURELOCATION, FLIGHTNUMBER)

VALUES ('12:00:00','14:00:00','USA','INDIA','00000');

INSERT INTO AIRWAYS.FLIGHTSCHEDULE (ARRIVALTIME, DEPARTURETIME, ARRIVALLOCATION, DEPARTURELOCATION, FLIGHTNUMBER)

VALUES ('13:00:00','15:00:00','INDIA','USA','00001');

INSERT INTO AIRWAYS.FLIGHTSCHEDULE (ARRIVALTIME, DEPARTURETIME, ARRIVALLOCATION, DEPARTURELOCATION, FLIGHTNUMBER)

VALUES ('14:00:00','16:00:00','USA','LONDON','00002');

INSERT INTO AIRWAYS.FLIGHTSCHEDULE (ARRIVALTIME, DEPARTURETIME, ARRIVALLOCATION, DEPARTURELOCATION, FLIGHTNUMBER)

VALUES ('15:00:00','17:00:00','AUSTRALIA','USA','00003');

INSERT INTO AIRWAYS.FLIGHTSCHEDULE (ARRIVALTIME, DEPARTURETIME, ARRIVALLOCATION, DEPARTURELOCATION, FLIGHTNUMBER)

VALUES ('16:00:00','18:00:00','CANADA','LONDON','00004');

/\*AIRPORT TABLE\*/

INSERT INTO AIRWAYS.AIRPORT (AIRPORTID, AIRPORTNAME, LOCATION, SSN, EMPLOYEEID)

VALUES ('01','ABC','INDIA','9999999999','7418529');

INSERT INTO AIRWAYS.AIRPORT (AIRPORTID, AIRPORTNAME, LOCATION, SSN, EMPLOYEEID)

VALUES ('02','XYZ','USA','8888888888','7539514');

INSERT INTO AIRWAYS.AIRPORT (AIRPORTID, AIRPORTNAME, LOCATION, SSN, EMPLOYEEID)

VALUES ('03','MNO','USA','7777777777','1258746');

INSERT INTO AIRWAYS.AIRPORT (AIRPORTID, AIRPORTNAME, LOCATION, SSN, EMPLOYEEID)

VALUES ('04','PQR','CANADA','6666666666','7896325');

INSERT INTO AIRWAYS.AIRPORT (AIRPORTID, AIRPORTNAME, LOCATION, SSN, EMPLOYEEID)

VALUES ('05','LMN','INDIA','9998887775','8547632');

/\*EMPLOYEE TABLE\*/

INSERT INTO AIRWAYS.EMPLOYEE (SSN, EMPLOYEEID, NAME, PHONENUMBER, EMAILID)

VALUES ('9999999999','7418529','ASHUTOSH','7897897897','ASHUTOSH@GMAIL.COM');

INSERT INTO AIRWAYS.EMPLOYEE (SSN, EMPLOYEEID, NAME, PHONENUMBER, EMAILID)

VALUES ('8888888888','7539514','KENIL','4566545654','KENIL@GMAIL.COM');

INSERT INTO AIRWAYS.EMPLOYEE (SSN, EMPLOYEEID, NAME, PHONENUMBER, EMAILID)

VALUES ('7777777777','1258746','YASH','1231231231','YASH@GMAIL.COM');

INSERT INTO AIRWAYS.EMPLOYEE (SSN, EMPLOYEEID, NAME, PHONENUMBER, EMAILID)

VALUES ('6666666666','7896325','PARTH','7417417417','PARTH@GMAIL.COM');

INSERT INTO AIRWAYS.EMPLOYEE (SSN, EMPLOYEEID, NAME, PHONENUMBER, EMAILID)

VALUES ('9998887775','8547632','TEJAS','9519519519','TEJAS@GMAIL.COM');

dbDROP.sql

/\*DROP TABLES,VIEW\*/

DROP TABLE AIRWAYS.PASSENGER;

DROP TABLE AIRWAYS.TICKET;

DROP TABLE AIRWAYS.PAYMENT;

DROP TABLE AIRWAYS.CARDDETAILS;

DROP TABLE AIRWAYS.FLIGHT;

DROP TABLE AIRWAYS.FLIGHTSCHEDULE;

DROP TABLE AIRWAYS.AIRPORT;

DROP TABLE AIRWAYS.EMPLOYEE;

DROP VIEW AIRWAYS.PASSENGERRECORD;

dbSQL.sql

/\*GET TICKET ID WITH PAYMENT DETAILS\*/

SELECT AIRWAYS.TICKET.TICKETID,SEATNUMBER,AIRWAYS.PAYMENT.PAYMENTID,PAYMENTAMOUNT FROM AIRWAYS.TICKET INNER JOIN AIRWAYS.PAYMENT ON AIRWAYS.TICKET.SSN= AIRWAYS.PAYMENT.SSN ORDER BY AIRWAYS.TICKET.TICKETID ASC;

A screenshot of a cell phone

Description automatically generated

/\*GET AIRPORT DETAILS,FLIGHT DETAILS, FLIGHT SCHEDULE\*/

SELECT AIRWAYS.AIRPORT.AIRPORTID,AIRPORTNAME,LOCATION,AIRWAYS.FLIGHT.FLIGHTNUMBER,FLIGHTTYPE,CAPACITY,AIRWAYS.FLIGHTSCHEDULE.ARRIVALTIME,DEPARTURETIME,ARRIVALLOCATION,DEPARTURELOCATION

FROM AIRWAYS.AIRPORT INNER JOIN (AIRWAYS.FLIGHT INNER JOIN AIRWAYS.FLIGHTSCHEDULE ON AIRWAYS.FLIGHT.FLIGHTNUMBER = AIRWAYS.FLIGHTSCHEDULE.FLIGHTNUMBER)

ON (AIRWAYS.AIRPORT.FLIGHTNUMBER = AIRWAYS.FLIGHT.FLIGHTNUMBER)

ORDER BY AIRWAYS.FLIGHT.FLIGHTNUMBER ASC;

A screenshot of a cell phone

Description automatically generated

/\*GET EMPLOYEE DETAILS WITH FLIGHT DETAILS AND AIRPORT DETAILS\*/

SELECT AIRWAYS.EMPLOYEE.EMPLOYEEID,NAME, AIRWAYS.AIRPORT.AIRPORTID,AIRPORTNAME,LOCATION,AIRWAYS.FLIGHT.FLIGHTNUMBER

FROM AIRWAYS.AIRPORT INNER JOIN (AIRWAYS.FLIGHT INNER JOIN AIRWAYS.EMPLOYEE ON AIRWAYS.FLIGHT.EMPLOYEEID = AIRWAYS.EMPLOYEE.EMPLOYEEID)

ON (AIRWAYS.AIRPORT.FLIGHTNUMBER = AIRWAYS.FLIGHT.FLIGHTNUMBER)

ORDER BY AIRWAYS.EMPLOYEE.EMPLOYEEID ASC;

A screenshot of a social media post

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/\*GET PASSENGER DETAILS WITH TICKET DETAILS FLIGHT NUMBER PAYMENT ID AND AIRPORT NAME AND LOCATION\*/

SELECT AIRWAYS.PASSENGER.NAME,ADDRESS,AIRWAYS.FLIGHT.FLIGHTNUMBER, AIRWAYS.PAYMENT.PAYMENTID,AIRWAYS.AIRPORT.AIRPORTNAME,LOCATION

FROM AIRWAYS.AIRPORT

INNER JOIN (AIRWAYS.FLIGHT

INNER JOIN (AIRWAYS.PASSENGER

INNER JOIN (AIRWAYS.TICKET INNER JOIN AIRWAYS.PAYMENT ON AIRWAYS.TICKET.TICKETID = AIRWAYS.PAYMENT.TICKETID)

ON AIRWAYS.PASSENGER.SSN = AIRWAYS.TICKET.SSN)

ON AIRWAYS.FLIGHT.FLIGHTNUMBER = AIRWAYS.TICKET.FLIGHTNUMBER)

ORDER BY AIRWAYS.FLIGHT.FLIGHTNUMBER DESC;

A screenshot of a cell phone

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/\*GET TOTAL AMOUNT RECIEVED FROM SPECIFIC PASSENGER\*/

SELECT SUM(PAYMENTAMOUNT), SSN

FROM PAYMENT

GROUP BY PAYMENTID;

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Description automatically generated

/\*GET TOTAL CAPACITY OF FLIGHT ACCORDING TO ITS TYPE\*/

SELECT SUM(CAPACITY),FLIGHTNUMBER, FLIGHTTYPE

FROM FLIGHT

GROUP BY FLIGHTTYPE;

A screenshot of a cell phone

Description automatically generated