SCHEMA DETAILS

Name	Type	Schema
Airline		CREATE TABLE `Airline` (`AirlineCode` varchar(10) NOT NULL, `Name` char(20) NOT NULL, `Number Of Flights` INTEGER, `Headquater` varchar(20), PRIMARY KEY(`AirlineCode`))
AirlineCode	varchar(10)	"AirlineCode" varchar(10) NOT NULL
Name	char(20)	"Name" char(20) NOT NULL
Number Of Flights	INTEGER	"Number Of Flights" INTEGER
Headquater	varchar(20)	"Headquater" varchar(20)
Booking		CREATE TABLE `Booking` (`BookingID` varchar(10) NOT NULL, `BookingTime` time NOT NULL, `BookingDate` date NOT NULL, `TransactionID` varchar(10) NOT NULL, `FlightNumber` INTEGER NOT NULL, `PassengerID` varchar(10), PRIMARY KEY(`BookingID`))
BookingID	varchar(10)	"BookingID" varchar(10) NOT NULL
BookingTime	time	"BookingTime" time NOT NULL
BookingDate	date	"BookingDate" date NOT NULL
TransactionI D	varchar(10)	"TransactionID" varchar(10) NOT NULL
FlightNumbe r	INTEGER	"FlightNumber" INTEGER NOT NULL
PassengerID	varchar(10)	"PassengerID" varchar(10)
Flight		CREATE TABLE `Flight` (`FlightNumber` INTEGER NOT NULL, `AirlineCode` varchar(10) NOT NULL, `Origin` NUMERIC NOT NULL, `Destination` NUMERIC NOT NULL, `Price` INTEGER NOT NULL, `Departure Time` time NOT NULL, `Arrival Time` time NOT NULL, `Days` varchar(7) NOT NULL, `Seats Available` INTEGER NOT NULL, PRIMARY KEY(`FlightNumber`))
FlightNumbe r	INTEGER	"FlightNumber" INTEGER NOT NULL
AirlineCode	varchar(10)	"AirlineCode" varchar(10) NOT NULL
Origin	NUMERIC	"Origin" NUMERIC NOT NULL
Destination	NUMERIC	"Destination" NUMERIC NOT NULL
Price	INTEGER	"Price" INTEGER NOT NULL
Departure Time	time	"Departure Time" time NOT NULL

1

Amount	INTEGER	"Amount" INTEGER NOT NULL							
Name	Type	Schema							
PassengerID	varchar(10)	"PassengerID" varchar(10) NOT NULL							
BookingID	varchar(10)	"BookingID" varchar(10) NOT NULL							
TransactionI D	varchar(10)	"TransactionID" varchar(10) NOT NULL							
		`Amount` INTEGER NOT NULL, PRIMARY KEY(`TransactionID`))							
		`BookingID` varchar(10) NOT NULL, `PassengerID` varchar(10) NOT NULL,							
Transaction		CREATE TABLE `Transaction` (`TransactionID` varchar(10) NOT NULL,							
Budget	integer	"Budget" integer							
Date of Travel	date	"Date of Travel" date							
Phone Number	integer	"Phone Number" integer CHECK(`Phone Number`<=999999999999999999999999999999999999							
Destination	char(20)	"Destination" char(20)							
Origin	char(20)	"Origin" char(20)							
Sex	char(1)	"Sex" char(1) NOT NULL							
Age	integer	"Age" integer NOT NULL							
Last Name	char(10)	"Last Name" char(10)							
First Name	char(10)	"First Name" char(10) NOT NULL							
Passenger ID	varchar(10)	"Passenger ID" varchar(10) NOT NULL							
		`Phone Number` integer check(`Phone Number` <= 99999999999999999999999999999999999							
		integer not null, `Sex` char(1) not null, `Origin` char(20), `Destination` char(20),							
		key not null, 'First Name' char(10) not null, 'Last Name' char(10), 'Age'							
Passenger		CREATE TABLE Passenger (`Passenger ID` varchar(10) primary							
Seats Available	INTEGER	"Seats Available" INTEGER NOT NULL							
Days	varchar(7)	"Days" varchar(7) NOT NULL							
Arrival Time	time	"Arrival Time" time NOT NULL							

Creating Tables

CREATE TABLE `Airline` (`AirlineCode` varchar(10) NOT NULL, `Name` char(20) NOT NULL, `Number Of Flights` INTEGER, `Headquater` varchar(20), PRIMARY KEY(`AirlineCode`))

CREATE TABLE `Booking` (`BookingID` varchar(10) NOT NULL, `BookingTime` time NOT NULL, `BookingDate` date NOT NULL, `TransactionID` varchar(10) NOT NULL, `FlightNumber` INTEGER NOT NULL, `PassengerID` varchar(10), PRIMARY KEY(`BookingID`))

CREATE TABLE `Flight` (`FlightNumber` INTEGER NOT NULL, `AirlineCode` varchar(10) NOT NULL, `Origin` NUMERIC NOT NULL, `Destination` NUMERIC NOT NULL, `Price` INTEGER NOT NULL, `Departure Time` time NOT NULL, `Arrival Time` time NOT NULL, `Days` varchar(7) NOT NULL, `Seats Available` INTEGER NOT NULL, PRIMARY KEY(`FlightNumber`))

CREATE TABLE `Transaction` (`TransactionID` varchar(10) NOT NULL, `BookingID` varchar(10) NOT NULL, `PassengerID` varchar(10) NOT NULL, `Amount` INTEGER NOT NULL, PRIMARY KEY(`TransactionID`))

Table Details

• Booking Table

Booking	Booking	Booking	Transaction	Flight	Passenger
ID	Time	Date	ID	Number	ID
B111	16:00	2019-10-18	TX111	11111	1P111
B112	16:02	2019-10-18	TX112	11111	1P112
B113	10:00	2019-09-30	TX113	11121	1P120
B114	01:00	2019-10-21	TX114	11113	1P115
B115	08:00	2019-10-25	TX115	11114	1P113

• Transaction Table

TransactionID	BookingID	PassengerID	Amount
TX111	B111	1P111	6000
TX112	B112	1P112	6000
TX113	B113	1P120	6500
TX114	B114	1P115	8000
TX115	B115	1P113	9000

• Airline Table

AirlineCode	Name	Number Of Flights	Headquater
3FE22	Fly Emirates	25	Delhi
IGO89	Indigo	18	Banglore
1JA12	Jet Airways	20	Mumbai
QA362	Qatar Airways	30	Delhi
SPJ23	Spicejet	12	Hyderabad

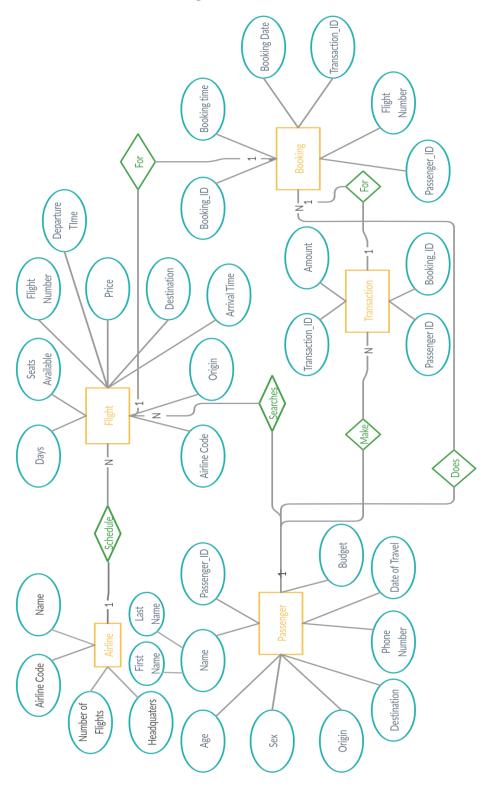
• Passenger Table

Passenger	First	Last				Destinatio	Phone	Date	Budge
ID	Name	Name	Age	Sex	Origin	n	Number	of Travel	t
1P111	Ankit	Dimri	20	M	Mumbai	Delhi	9920650556	2019-11-21	10000
1P112	Aayushi	Singh	20	F	Mumbai	Delhi	7738819485	2019-11-21	8000
		Chaudhar							
1P113	Dheeraj	у	19	M	Banglore	Mumbai	8955674124	2019-10-15	8000
	Somyadee	Shrivastav			Hyderaba				
1P114	p	a	20	M	d	Delhi	7845142562	2019-12-25	10000
1P115	Sujeet	Mourya	21	M	Delhi	Banglore	8888547111	2019-12-12	12000
1P116	Akshay	Jain	20	M	Banglore	Mumbai	8521463795	2019-11-30	6000
					Hyderaba				
1P117	Kapil	Jhade	20	M	d	Delhi	8957642157	2019-10-6	6000
					Hyderaba				
1P118	Tarun	Gupta	21	M	d	Delhi	6847512497	2019-10-6	4500
1P119	Priya		20	F	Delhi	Banglore	9896587421	2019-11-10	8000
1P120	Srushti	Desai	21	F	Mumbai	Delhi	8895741358	2019-12-23	11000
1P121	Aman	Gupta	20	F	Mumbai	Banglore	9687451235	2019-11-11	5000

• Flight Table

Flight	Airline		Destinatio		Departure	Arrival		Seats
Number	Code	Origin	n	Price	Time	Time	Days	Available
							MTWTF	
11111	1JA12	Mumbai	Delhi	6000	12:00	14:00	SS	560
11112	IGO89	Mumbai	Hyderabad	4500	16:00	17:30	M-WS-	250
							MTWTF	
11113	QA362	Delhi	Banglore	8000	13:00	16:00	S-	500
							MTWTF	
11114	3FE22	Banglore	Mumbai	9000	08:00	09:30	SS	450
		Hyderaba						
11115	SPJ23	d	Delhi	5000	11:00	14:00	MTF	150
							MTWTF	
11117	QA362	Banglore	Mumbai	8000	10:00	11:25		300
11118	SPJ23	Mumbai	Hyderabad	5000	06:00	08:00	MTF	250
11119	1JA12	Dellhi	Banglore	6999	11:00	14:00	WT-SS	300
							MTWTF	
11120	QA362	Mumbai	Delhi	5899	09:00	11:00	SS	500
						1	-TWTF-	
11121	3FE22	Mumbai	Delhi	6500	10:00	12:00	S	500

ER Diagram



Inserting Values

```
INSERT INTO "Passenger" ("Passenger ID", "First Name", "Last
Name", "Age", "Sex", "Origin", "Destination", "Phone Number", "Date of Travel", "Budget") VALUES
('1P111','Ankit','Dimri',20,'M','Mumbai','Delhi',9920650556,'2019-11-21',10000),
('1P112', 'Aayushi', 'Singh', 20, 'F', 'Mumbai', 'Delhi', 7738819485, '2019-11-21', 8000),
('1P113','Dheeraj','Chaudhary',19,'M','Banglore','Mumbai',8955674124,'2019-10-15',8000),
('1P114', 'Somyadeep', 'Shrivastava', 20, 'M', 'Hyderabad', 'Delhi', 7845142562, '2019-12-25', 10000),
('1P115', 'Sujeet', 'Mourya', 21, 'M', 'Delhi', 'Banglore', 8888547111, '2019-12-12', 12000),
('1P116', 'Akshay', 'Jain', 20, 'M', 'Banglore', 'Mumbai', 8521463795, '2019-11-30', 6000),
('1P117', 'Kapil', 'Jhade', 20, 'M', 'Hyderabad', 'Delhi', 8957642157, '2019-10-6', 6000),
('1P118', 'Tarun', 'Gupta', 21, 'M', 'Hyderabad', 'Delhi', 6847512497, '2019-10-6', 4500),
('1P119', 'Priya', '', 20, 'F', 'Delhi', 'Banglore', 9896587421, '2019-11-10', 8000),
('1P120', 'Srushti', 'Desai', 21, 'F', 'Mumbai', 'Delhi', 8895741358, '2019-12-23', 11000),
('1P121','Aman','Gupta',20,'F','Mumbai','Banglore',9687451235,'2019-11-11',5000);
INSERT INTO "Flight" ("FlightNumber", "AirlineCode", "Origin", "Destination", "Price", "Departure
Time", "Arrival Time", "Days", "Seats Available") VALUES
(11111, '1JA12', 'Mumbai', 'Delhi', 6000, '12:00', '14:00', 'MTWTFSS', 560),
(11112, 'IGO89', 'Mumbai', 'Hyderabad', 4500, '16:00', '17:30', 'M-W--S-', 250),
(11113,'QA362','Delhi','Banglore',8000,'13:00','16:00','MTWTFS-',500),
(11114, '3FE22', 'Banglore', 'Mumbai', 9000, '08:00', '09:30', 'MTWTFSS', 450),
(11115, 'SPJ23', 'Hyderabad', 'Delhi', 5000, '11:00', '14:00', 'M--TF--', 150),
(11117,'QA362','Banglore','Mumbai',8000,'10:00','11:25','MTWTF--',300),
(11118, 'SPJ23', 'Mumbai', 'Hyderabad', 5000, '06:00', '08:00', 'M--TF--', 250),
(11119,'1JA12','Dellhi','Banglore',6999,'11:00','14:00','--WT-SS',300),
(11120,'QA362','Mumbai','Delhi',5899,'09:00','11:00','MTWTFSS',500),
(11121,'3FE22','Mumbai','Delhi',6500,'10:00','12:00','-TWTF-S',500);
```

```
INSERT INTO "Airline" ("AirlineCode", "Name", "Number Of Flights", "Headquater") VALUES
('1JA12','Jet Airways',20,'Mumbai'),
('SPJ23', 'Spicejet', 12, 'Hyderabad'),
('QA362', 'Qatar Airways', 30, 'Delhi'),
('3FE22','Fly Emirates',25,'Delhi'),
('IGO89', 'Indigo', 18, 'Banglore');
INSERT INTO "Booking"
("BookingID", "BookingTime", "BookingDate", "TransactionID", "FlightNumber", "PassengerID")
VALUES ('B111','16:00','2019-10-18','TX111',11111,'1P111'),
('B112','16:02','2019-10-18','TX112',11111,'1P112'),
('B113','10:00','2019-09-30','TX113',11121,'1P120'),
('B114','01:00','2019-10-21','TX114',11113,'1P115'),
('B115','08:00','2019-10-25','TX115',11114,'1P113');
INSERT INTO "Transaction" ("TransactionID", "BookingID", "PassengerID", "Amount") VALUES
('TX111','B111','1P111',6000),
('TX112','B112','1P112',6000),
('TX113','B113','1P120',6500),
('TX114','B114','1P115',8000),
('TX115','B115','1P113',9000);
```

Queries

- 1. SELECT * from Passenger NATURAL JOIN Booking;
- SELECT * FROM Passenger INNER JOIN Booking
 WHERE Passenger.PassengerID = Booking.BookingID;
- 3. SELECT PassengerID FROM Passenger NATURAL JOIN Booking WHERE Passenger.Sex="M";
- 4. SELECT Name FROM Passenger NATURAL JOIN Booking NATURAL JOIN Transaction WHERE Passenger.Sex='M';
- 5. SELECT Passenger.PassengerID,Booking.BookingDate FROM Passenger INNER JOIN Booking ON Passenger.PassengerID = Booking.BookingID;
- 6. SELECT * FROM BOOKING, TRANSACTION WHERE BOOKING.TRANSACTIONID = TRANSACTION.TRANSACTIONID;
- 7. SELECT NAME, FIRSTNAME FROM AIRLINES, PASSENGER WHERE AIRLINE.NAME = "RAMESH" AND PASSENGER.SEX = "M";

OUTPUT

1.

1P111	Ankit	Dimri	20	M	Mumbai	Delhi	99206 50556	2019- 11-21	1000	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P111	Ankit	Dimri	20	M	Mumbai	Delhi	99206 50556		1000	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P111	Ankit	Dimri	20	M	Mumbai	Delhi	99206 50556	11-21	1000	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P111	Ankit	Dimri	20	M	Mumbai	Delhi	99206 50556	2019- 11-21	1000	B114	01:0 0	2019- 10-21	TX114	11113	1P115
1P111	Ankit	Dimri	20	M	Mumbai	Delhi	99206 50556		1000	B115	08:0 0	2019- 10-25	TX115	11114	1P113
1P112	Aayushi	Singh	20	F	Mumbai	Delhi	77388 19485		8000	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P112	Aayushi	Singh	20	F	Mumbai	Delhi	77388 19485		8000	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P112	Aayushi	Singh	20	F	Mumbai	Delhi	77388 19485		8000	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P112	Aayushi	Singh	20	F	Mumbai	Delhi	77388 19485		8000	B114	01:0 0	2019- 10-21	TX114	11113	1P115
1P112	Aayushi	Singh	20	F	Mumbai	Delhi	77388 19485		8000	B115	08:0 0	2019- 10-25	TX115	11114	1P113
1P113	Dheeraj	Chaudhary	19	M	Banglore	Mumbai	89556 74124		8000	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P113	Dheeraj	Chaudhary	19	M	Banglore	Mumbai	89556 74124		8000	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P113	Dheeraj	Chaudhary	19	M	Banglore	Mumbai	89556 74124		8000	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P113	Dheeraj	Chaudhary	19	M	Banglore	Mumbai	89556 74124		8000	B114	01:0 0	2019- 10-21	TX114	11113	1P115
1P113	Dheeraj	Chaudhary	19	M	Banglore	Mumbai	89556 74124	10-15		B115	08:0 0	2019- 10-25	TX115	11114	1P113
1P114	Somyade ep	Shrivastav a	20	M	Hyderab ad	Delhi	1	2019- 12-25	1000	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P114	Somyade ep	Shrivastav a	20	M	Hyderab ad	Delhi	78451 42562	2019- 12-25	1000	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P114	Somyade ep	Shrivastav a	20	M	Hyderab ad	Delhi	1	2019- 12-25	1000	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P114	Somyade ep	Shrivastav a	20	M	Hyderab ad	Delhi	78451 42562	2019- 12-25	1000	B114	01:0 0	2019- 10-21	TX114	11113	1P115
1P114	•	Shrivastav a	20	M	Hyderab ad	Delhi	1	2019- 12-25	1000	B115	08:0 0	2019- 10-25	TX115	11114	1P113

					1				1				1	1	
1P115	Sujeet	Mourya	21	M	Delhi	Banglore	88885 47111	2019- 12-12	1200	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P115	Sujeet	Mourya	21	M	Delhi	Banglore	88885 47111	2019- 12-12	1200	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P115	Sujeet	Mourya	21	M	Delhi	Banglore	88885 47111		1200	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P115	Sujeet	Mourya	21	M	Delhi	Banglore	88885 47111	2019- 12-12	1200	B114	01:0	2019- 10-21	TX114	11113	1P115
1P115	Sujeet	Mourya	21	M	Delhi	Banglore	88885 47111		1200	B115	08:0	2019- 10-25	TX115	11114	1P113
1P116	Akshay	Jain	20	M	Banglore	Mumbai	85214 63795	2019- 11-30	6000	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P116	Akshay	Jain	20	M	Banglore	Mumbai	85214 63795		6000	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P116	Akshay	Jain	20	M	Banglore	Mumbai	85214 63795		6000	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P116	Akshay	Jain	20	M	Banglore	Mumbai	85214 63795		6000	B114	01:0	2019- 10-21	TX114	11113	1P115
1P116	Akshay	Jain	20	M	Banglore	Mumbai	85214 63795		6000	B115	08:0	2019- 10-25	TX115	11114	1P113
1P117	Kapil	Jhade	20	M	Hyderab ad	Delhi	89576 42157		6000	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P117	Kapil	Jhade	20	M	Hyderab ad	Delhi	89576 42157		6000	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P117	Kapil	Jhade	20	M	Hyderab ad	Delhi	89576 42157		6000	B113	10:0	2019- 09-30	TX113	11121	1P120
1P117	Kapil	Jhade	20	M	Hyderab ad	Delhi	89576 42157		6000	B114	01:0 0	2019- 10-21	TX114	11113	1P115
1P117	Kapil	Jhade	20	M	Hyderab ad	Delhi	89576 42157		6000	B115	08:0	2019- 10-25	TX115	11114	1P113
1P118	Tarun	Gupta	21	M	Hyderab ad	Delhi	68475 12497		4500	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P118	Tarun	Gupta	21	M	Hyderab ad	Delhi	68475 12497		4500	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P118	Tarun	Gupta	21	M	Hyderab ad	Delhi	68475 12497		4500	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P118	Tarun	Gupta	21	M	Hyderab ad	Delhi	68475 12497		4500	B114	01:0 0	2019- 10-21	TX114	11113	1P115
1P118	Tarun	Gupta	21	M	Hyderab ad	Delhi	68475 12497		4500	B115	08:0 0	2019- 10-25	TX115	11114	1P113
1P119	Priya		20	F	Delhi	Banglore	98965 87421		8000	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P119	Priya		20	F	Delhi	Banglore	98965	2019-	8000	B112	16:0	2019-	TX112	11111	1P112

							87421	11-10			2	10-18			
1P119	Priya		20	F	Delhi	Banglore	98965 87421		8000	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P119	Priya		20	F	Delhi	Banglore	98965 87421		8000	B114	01:0	2019- 10-21	TX114	11113	1P115
1P119	Priya		20	F	Delhi	Banglore	98965 87421	11-10		B115	08:0	2019- 10-25	TX115	11114	1P113
1P120	Srushti	Desai	21	F	Mumbai	Delhi	88957 41358	1	"	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P120	Srushti	Desai	21	F	Mumbai	Delhi	88957 41358		"	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P120	Srushti	Desai	21	F	Mumbai	Delhi	88957 41358	2019- 12-23	1100	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P120	Srushti	Desai	21	F	Mumbai	Delhi	88957 41358	12-23	U	B114	01:0	2019- 10-21	TX114	11113	1P115
1P120	Srushti	Desai	21	F	Mumbai	Delhi	88957 41358	2019- 12-23	1100	B115	08:0	2019- 10-25	TX115	11114	1P113
1P121	Aman	Gupta	20	F	Mumbai	Banglore	96874 51235		5000	B111	16:0 0	2019- 10-18	TX111	11111	1P111
1P121	Aman	Gupta	20	F	Mumbai	Banglore	96874 51235	II .	5000	B112	16:0 2	2019- 10-18	TX112	11111	1P112
1P121	Aman	Gupta	20	F	Mumbai	Banglore	96874 51235		5000	B113	10:0 0	2019- 09-30	TX113	11121	1P120
1P121	Aman	Gupta	20	F	Mumbai	Banglore	96874 51235		5000	B114	01:0	2019- 10-21	TX114	11113	1P115
1P121	Aman	Gupta	20	F	Mumbai	Banglore	96874 51235		5000	B115	08:0	2019- 10-25	TX115	11114	1P113