**Database Project**

**Project Title: Airline Reservation Database**

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**INTRODUCTION**

This project on Airline Database Management System is the online of registration process of airline system. The system is able to provide information like Flight detail, passenger’s information, fair detail, and flight path detail. The system also allows us to add records when a passenger reserves a ticket. For data storage and retrieval we are using PostgreSQL server. It enables us to add any number of records in our database.

**Objective of the project:**

* To provide information about reservation in airlines management.
* To help airlines system in making their business more efficient.
* An added attraction for their potential customers.
* It will be more user friendly and accurate and optimal database.

**Data Requirement:**

For this we have created different entities.

* **Company**

It has attributes i.e. c\_id (Primary key) it is unique, c\_name (company name), head\_quarter, company\_url.

* **Flight\_status**

It has attributes i.e flight\_status\_id (Primary key), it is unique flight\_status\_name like international or domestic

* **Flight\_detail**

It has attributes i.e flight\_no (Primary key),flight\_name ,c\_id, flight\_type\_id

We are assuming that all flight\_no are unique for all companies.

* **Route**

It has attributes i.e. route\_id (Primary key), Source, Destination.

We assuming this entities cover airports.

Here will be all possible route detail.

Example.

{A -> B->C->D}

For this

{A->B,

A->C,

A->D,

B->C,

B->D,

C->D }

* **Days**

It has attributes i.e. day\_id(Primary key) ,day\_name all week days.

* **All\_path**

It has attributes i.e. flight\_no (primary key), rout\_id.

This is a particular flight all path details.

If flight\_no 1111 (A->B->C->D)

For this

{A->B,

A->C,

A->D,

B->C,

B->D,

C->D }

* **Flight\_route**

It has attributes i.e. flight\_no, flight\_route\_id, rout\_id, dept\_day, depart\_time, arrival\_time.

This entities help for the particular flight path in orderwise.

If flight\_no 1111 (A->B->C->D)

{

1111, 1 , A->B,

1111, 2 , B->C,

1111, 3 , C->D}

* **Users**

It has attributes i.e. user\_id (primary key) ,{ fname , lname} (composite attribute) , gender , dob , emailid , contact\_no , address , country.

* **Class**

It has attributes class\_id (Primary key), class\_name.

This is two type class in this database system one is business and other is general.

* **Ticket**

It has attributes i.e pnr\_no (primary key) this will be unique in our database, user\_id, flight\_no, class\_id , route\_id , booking\_date , journey\_date.

* **Passenger\_status**

It has attributes i.e passenger\_status\_id (primary\_key), passenger\_status\_name. In this entity three type of status below 3 year age and more than this and pwd.

* **Passenger**

It has attributes i.e. {pnr\_no ,seat\_no(weak entity)} (primary key) , {fname ,lname} (composite attribute) , gender , age.

This is weak entity dependent on ticket entity.

* **fare\_detail**

It has attributes i.e primarykey (flight\_no, route\_id, class\_id, passenger\_status\_id) fare. This entity has all foreing key

**Queries for Database:**

1. Given company name find out all flight details?
2. Given the flight number find out route (source, destination)?
3. Given a day find out all airports and flight details?
4. Given a route find out all type of fare?
5. Given a source and destination find out flight details?
6. Find out Max fare with flight Detail?
7. Given PNR find out all details?
8. Find out how many ticket book for particular date for Mumbai?
9. Find out how many ticket book for particular date from Delhi to Mumbai?
10. Find out how many ticket book for particular date?
11. Number of flight a particular company?
12. Find Out User detail those have maximum booking?
13. How many seat book of a particular flight?
14. Update user profile?
15. Find out flight detail who going Monday and from Delhi to Mumbai?
16. Find out PNR No which have Booked maximum number of sheets?
17. Find out the total no ticket of a particular journey date?
18. Find out the route-id which have maximum flight?

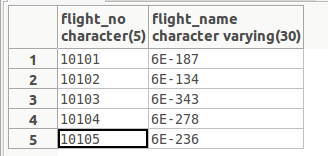
**SQL Query**

**Q1.**Given company name find out all flight details?

**Company Name:** Indigo

**SQL:** select flight\_no,flight\_name from company natural join flight\_detail where c\_name='Indigo';

**Output:**

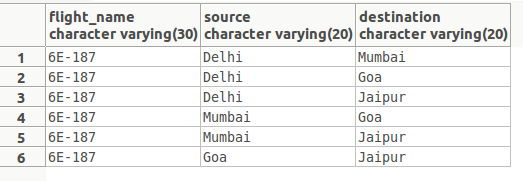
****

**Q2.**Given the flight number find out route (source,destination)?

**Flight No: 10101**

**SQL: select flight\_name,source,destination** from (select \* from flight\_detail natural join all\_path where flight\_no='10101')as r1 natural join route;

**Output:**

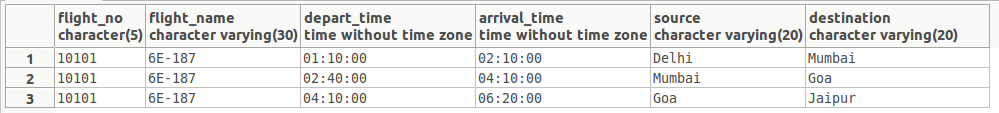
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**Q3.**Given a day find out all airports and flight details?

**Day: Monday**

**SQL:** select flight\_no, flight\_name,depart\_time,arrival\_time,source,destination from(select \* from(select \* from flight\_detail natural join flight\_route) as r1 natural join days where day\_name='Monday')as r2 natural join route;

**Output:**

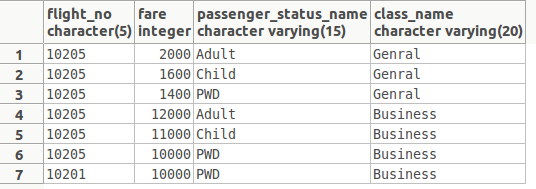
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**Q4** Given a route find out all type of fare?**.**

**Route:** Ahmedabad to Channai

**SQL:** select flight\_no,fare,passenger\_status\_name from(select \* from fare\_detail natural join route)as r1 natural join passenger\_status where source='Ahmedabad' and destination='Channai';

**Output:**

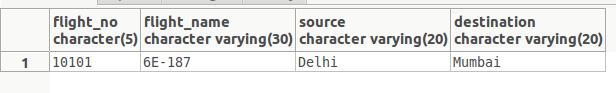
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**Q5.**Given a source and destination find out flight details?

**Route:** Delhi to Mumbai

**SQL:** select flight\_no,flight\_name,source,destination from (select \* from flight\_detail natural join all\_path)as r1 natural join route where source='Delhi' and destination='Mumbai';

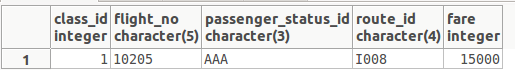
**Output:**

****

**Q6.**Find out Max fare with flight Detail?

**SQL:** select class\_id,flight\_no,passenger\_status\_id,route\_id,fare from fare\_detail where 7

**Output:**

****

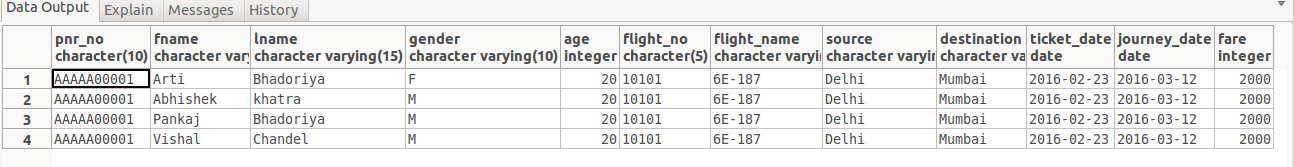
**Q7**.Given PNR find out all details?

**--PNR No: AAAAA00001**

**SQL:** select pnr\_no,fname,lname,gender,age,flight\_no,flight\_name,source,destination,ticket\_date,journey\_date,fare from(select \* from((select \* from ticket natural join passenger where pnr\_no='AAAAA00001') as r1 natural join

(select \* from flight\_detail natural join route) as r2)) as r3 natural join fare\_detail;

**Output:**

****

**Q8.** Find out how many ticket book for particular date for Mumbai?

**SQL:** select count(seat\_no)as No\_of\_Ticket from(select \* from passenger natural join ticket)as r1 natural join route where ticket\_date='2016-02-23' and destination='Mumbai';

**Output:**

****

**Q9.**Find out how many ticket book for particular date from Delhi to Mumbai?

**SQL:** select count(pnr\_no) from(select \* from passenger natural join ticket where journey\_date='2016-03-12')as r1 natural join route where source='Delhi' and destination='Mumbai';

**Output:**

****

**Q10.** Find out how many ticket book for particular date?

SQL:

select count(pnr\_no)as No\_of\_Ticket from passenger natural join ticket where ticket\_date='2016-02-23';

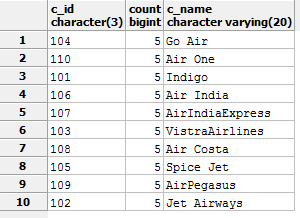
Output:



**Q11**. Number of flight a particular company?

SQL: c\_id,count(select flight\_no),c\_name from (company natural join flight\_detail) group by c\_id;

Output:

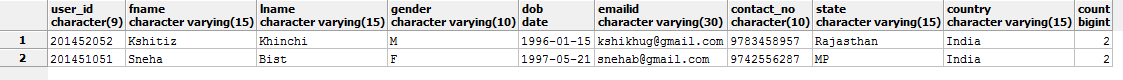


Q12. Find Out User detail those have maximum booking?

SQL: select \* from users natural join (select user\_id,count(pnr\_no) from ticket group by user\_id having count(pnr\_no) >= all

(select count(pnr\_no) from ticket group by user\_id)) as r;

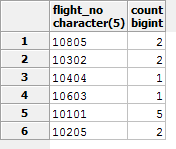
Output:



Q13. How many seat book of a particular flight?

SQL: select count(pnr\_no) from passenger natural join ticket where journey\_date='2016-03-12';

Output:



Q14. Update profile

SQL: update users Set fname='Sakshi',lname='Dubay',emailid='skdubay998@gmail.com',contact\_no='9865423432',

where fname='name';

Q15. Find out flight detail who going Monday and from Delhi to Mumbai?

SQL: select flight\_no,flight\_name,source,destination,depart\_time,arrival\_time,day\_name from((select \* from flight\_detail natural join flight\_route)as r1 natural join (select \* from all\_path natural join route)as r2) as r3 natural join days where day\_name='Monday' and source='Delhi' and destination='Mumbai';

Output:



Q16. Find out PNR No which have Booked maximum number of sheets?

SQL: select pnr\_no,count(seat\_no) as cc from (select \* from flight\_route join ticket on(flight\_route.route\_id=ticket.route\_id and

flight\_route.flight\_no=ticket.flight\_no )) as r natural join passenger group by pnr\_no having count(seat\_no) >= all ( select count(seat\_no) from

(select \* from flight\_route join ticket on(flight\_route.route\_id=ticket.route\_id and

flight\_route.flight\_no=ticket.flight\_no)) as r natural join passenger group by pnr\_no);

Output:



Q17. Find out the total no ticket of a particular journey date?

SQL: select count(pnr\_no) from passenger natural join ticket where journey\_date='2016-03-12';

Output:

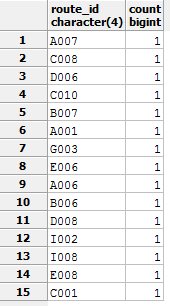


Q18. Find out the route-id which have maximum flight?

SQL: select route\_id,count(\*) from flight\_route natural join all\_path group by route\_id having count(\*) >= all

(select count(\*) from flight\_route natural join all\_path group by route\_id);

Output:



**Functional dependencies of different entities or relation:**

Company

|  |  |  |  |
| --- | --- | --- | --- |
| **c\_id** | c\_name | head\_quarter | company\_url |

### FD's

c\_id → c\_name

c\_id → head\_quarter

c\_id → company\_url

BCNF

flight\_status

|  |  |
| --- | --- |
| **flight\_status\_id** | flight\_status\_name |

**FD's**

flight\_status\_id → flight\_status\_name

BCNF

flight\_detail

|  |  |  |  |
| --- | --- | --- | --- |
| **flight\_no** | flight\_name | c\_id | flight\_status\_id |

**FD's**

flight\_no → flight\_name

flight\_no → c\_id

flight\_no → flight\_status\_id

BCNF

route

|  |  |  |
| --- | --- | --- |
| **route\_id** | source | destination |

**FD's**

route\_id → source

route\_id → destination

BCNF

days

|  |  |
| --- | --- |
| **day\_id** | day\_name |

**FD's**

day\_id → day\_name

BCNF

all\_path

|  |  |
| --- | --- |
| flight\_no | route\_id |

**FD's**

Not exist

flight\_route

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **flight\_no** | **flight\_route\_id** | route-id | dept\_day | depart\_time | arrival\_time |

**FD's**

{ flight\_no, flight\_route\_id }→ route-id

{ flight\_no, flight\_route\_id }→ dept\_day

{ flight\_no, flight\_route\_id }→ depart\_time

{ flight\_no, flight\_route\_id }→ arrival\_time

BCNF

user

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **user\_id** | fname | lname | gender | dob | emailid | contact\_no | address | country |

FD's

user\_id → fname

user\_id → lname

user\_id → gender

user\_id → dob

user\_id → emailid

user\_id → contact\_no

user\_id → country

BCNF

class

|  |  |
| --- | --- |
| **class\_id** | class\_name |

FD's

class\_id → class\_name

BCNF

ticket

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **pnr\_no** | user\_id | flight\_no | class\_id | route\_id | booking\_date | journey\_date |

FD's

pnr\_no → user\_id

pnr\_no → flight\_no

pnr\_no → class

pnr\_no → route-id

pnr\_no →booking\_date

pnr\_no → journey\_date

BCNF

passenger\_status

|  |  |
| --- | --- |
| **passenger\_status\_id** | passenger\_status\_name |

FD's

passenger\_status\_id → passenger\_status\_name

BCNF

passenger

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **pnr\_no** | **seat\_no** | fname | lname | gender | passenger\_status\_id |

FD's

{pnr\_no, seat\_no} → fname

{pnr\_no, seat\_no} →lame

{pnr\_no, seat\_no} → gender

{pnr\_no, seat\_no} → passenger\_status\_id

BCNF

fare\_detail

|  |  |  |  |
| --- | --- | --- | --- |
| **class\_id** | **flight\_id** | **passenger\_status** | fare |

FD's

{ class, flight\_id, passenger\_status } → fare

BCNF

**DDL and Insert Files:**

DROP SCHEMA airline CASCADE;

CREATE SCHEMA airline;

SET search\_path TO airline;

CREATE TABLE company

(

c\_id CHAR(3) PRIMARY KEY NOT NULL,

c\_name VARCHAR(20) NOT NULL,

head\_quarter VARCHAR(20),

company\_url VARCHAR(30)

);

CREATE TABLE flight\_status

(

flight\_status\_id CHAR(1) PRIMARY KEY NOT NULL,

flight\_status\_name VARCHAR(20) NOT NULL

);

CREATE TABLE flight\_detail

(

flight\_no CHAR(5) PRIMARY KEY NOT NULL,

flight\_name VARCHAR(30) NOT NULL,

c\_id CHAR(3),

flight\_status\_id CHAR(1) REFERENCES flight\_status(flight\_status\_id),

FOREIGN KEY(c\_id) REFERENCES company(c\_id)

);

CREATE TABLE route

(

route\_id CHAR(4) PRIMARY KEY NOT NULL,

source VARCHAR(20) NOT NULL,

destination VARCHAR(20) NOT NULL,

distance INT

);

CREATE TABLE days

(

day\_id VARCHAR(4) PRIMARY KEY NOT NULL,

day\_name VARCHAR(13) NOT NULL

);

CREATE TABLE all\_path

(

flight\_no CHAR(5) REFERENCES flight\_detail(flight\_no),

route\_id CHAR(4) REFERENCES route(route\_id),

PRIMARY KEY(flight\_no, route\_id)

);

CREATE TABLE flight\_route

(

flight\_no CHAR(5) REFERENCES flight\_detail(flight\_no),

flight\_route\_id CHAR(6) NOT NULL,

depart\_time TIME NOT NULL,

arrival\_time TIME NOT NULL,

day\_id VARCHAR(4) NOT NULL REFERENCES days(day\_id),

route\_id CHAR(4) NOT NULL REFERENCES route(route\_id),

PRIMARY KEY(flight\_route\_id, flight\_no)

);

CREATE TABLE users

(

user\_id CHAR(9) PRIMARY KEY NOT NULL,

fname VARCHAR(15) NOT NULL,

lname VARCHAR(15),

gender VARCHAR(10) NOT NULL,

dob DATE NOT NULL,

emailid VARCHAR(30),

contact\_no CHAR(10),

state VARCHAR(15),

country VARCHAR(15)

);

create table class (

class\_id int primary key NOT NULL,

class\_name varchar(20)

);

CREATE TABLE ticket

(

pnr\_no CHAR(10) NOT NULL,

user\_id CHAR(9) NOT NULL,

flight\_no CHAR(5) REFERENCES flight\_detail(flight\_no),

class\_id int,

route\_id CHAR(4) REFERENCES route(route\_id),

ticket\_date DATE NOT NULL,

journey\_date DATE NOT NULL,

PRIMARY KEY(pnr\_no)

);

CREATE TABLE passenger\_status

(

passenger\_status\_id CHAR(3) PRIMARY KEY NOT NULL,

passenger\_status\_name VARCHAR(15)

);

CREATE TABLE passenger

(

pnr\_no CHAR(10) REFERENCES ticket(pnr\_no),

seat\_no INT NOT NULL,

fname VARCHAR(15) NOT NULL,

lname VARCHAR(15),

gender VARCHAR(10),

age INT,

passenger\_status\_id char(3) NOT NULL REFERENCES passenger\_status(passenger\_status\_id),

PRIMARY KEY(pnr\_no, seat\_no)

);

CREATE TABLE fare\_detail

(

route\_id char(4) NOT NULL references route(route\_id),

class\_id int references class(class\_id),

passenger\_status\_id CHAR(3) NOT NULL REFERENCES passenger\_status(passenger\_status\_id),

fare INT NOT NULL,

flight\_no CHAR(5) REFERENCES flight\_detail(flight\_no),

primary key (class\_id,flight\_no,passenger\_status\_id,route\_id)

);

**Tuples:**

set search\_path to airline;

**Company:**

insert into company values('101','Indigo','Gurgaon','www.indigo.com' );

insert into company values('102','Jet Airways ','Mumbai','www.jetairway.com');

insert into company values('103','VistraAirlines','Delhi','www.vistraairlines.com');

insert into company values('104','Go Air','Mumbai','www.goair.com');

insert into company values('105','Spice Jet','Gurgaon','www.spicejet.com');

insert into company values('106','Air India','Delhi','www.airindia.ac.in');

insert into company values('107','AirIndiaExpress','Kochi','www.airindiaexp.com');

insert into company values('108','Air Costa','Vijay Wada','www.aircosta.com');

insert into company values('109','AirPegasus','Bengalooru','www.airpegasus.com');

insert into company values('110','Air One','New Delhi','www.airone.com');

**flight\_status :**

insert into flight\_status values('A','Domestic');

insert into flight\_status values('B','International');

insert into flight\_detail values('10101','6E-187','101','A');

insert into flight\_detail values('10102','6E-134','101','A');

insert into flight\_detail values('10103','6E-343','101','A');

insert into flight\_detail values('10104','6E-278','101','B');

insert into flight\_detail values('10105','6E-236','101','B');

insert into flight\_detail values('10201','9W-K-7079','102','A');

insert into flight\_detail values('10202','9W-K-7088','102','A');

insert into flight\_detail values('10203','9W-K-7083','102','B');

insert into flight\_detail values('10204','9W-K-2878','102','B');

insert into flight\_detail values('10205','9W-K-2877','102','A');

insert into flight\_detail values('10301','UK877','103','A');

insert into flight\_detail values('10302','UK878','103','A');

insert into flight\_detail values('10303','UK969','103','B');

insert into flight\_detail values('10304','UK968','103','B');

insert into flight\_detail values('10305','UK992','103','A');

insert into flight\_detail values('10401','G8-242','104','B');

insert into flight\_detail values('10402','G8-301','104','A');

insert into flight\_detail values('10403','G8-246','104','A');

insert into flight\_detail values('10404','G8-753','104','B');

insert into flight\_detail values('10405','G8-752','104','A');

insert into flight\_detail values('10501','SG-853','105','A');

insert into flight\_detail values('10502','SG-1031','105','A');

insert into flight\_detail values('10503','SG-324','105','B');

insert into flight\_detail values('10504','SG-277','105','A');

insert into flight\_detail values('10505','SG-916','105','B');

insert into flight\_detail values('10601','AI9730','106','A');

insert into flight\_detail values('10602','AI9781','106','B');

insert into flight\_detail values('10603','AI274','106','A');

insert into flight\_detail values('10604','AI9511','106','B');

insert into flight\_detail values('10605','AI9704','106','A');

insert into flight\_detail values('10701','IX-435','107','A');

insert into flight\_detail values('10702','IX-204','107','B');

insert into flight\_detail values('10703','IX-605','107','A');

insert into flight\_detail values('10704','IX-341','107','A');

insert into flight\_detail values('10705','IX-412','107','B');

insert into flight\_detail values('10801','LB693','108','A');

insert into flight\_detail values('10802','LB633','108','B');

insert into flight\_detail values('10803','LB692','108','A');

insert into flight\_detail values('10804','LB671','108','A');

insert into flight\_detail values('10805','LB697','108','B');

insert into flight\_detail values('10901','OP124','109','A');

insert into flight\_detail values('10902','OP221','109','B');

insert into flight\_detail values('10903','OP123','109','A');

insert into flight\_detail values('10904','OP122','109','B');

insert into flight\_detail values('10905','OP121','109','A');

insert into flight\_detail values('11001','AN655','110','A');

insert into flight\_detail values('11002','AN642','110','A');

insert into flight\_detail values('11003','AN241','110','B');

insert into flight\_detail values('11004','AN231','110','A');

insert into flight\_detail values('11005','AN121','110','B');

**route:**

insert into route values('A001','Delhi','Mumbai','1400');

insert into route values('A002','Pune','Delhi','8400');

insert into route values('A003','Kochi','Kolkata','7400');

insert into route values('A004','Channai','Mumbai','4023');

insert into route values('A005','Agartala','Mumbai','4001');

insert into route values('A006','Goa','Varansi','3001');

insert into route values('A007','Goa','Pune','4001');

insert into route values('A008','Varansi','Pune','4001');

insert into route values('B001','Ahmedabad','Chandigarh','1200');

insert into route values('B002','Mumbai','Shrinagar','4070');

insert into route values('B003','Shrinagar','Mumbai','4009');

insert into route values('B004','Silchar','Jorhat','4070');

insert into route values('B005','Jorhat','Silchar','4600');

insert into route values('B006','Kochi','Mumbai','4600');

insert into route values('B007','Mumbai','Visakhapatnam','4600');

insert into route values('B008','Kochi','Visakhapatnam','4600');

insert into route values('C001','Delhi','Goa','4005');

insert into route values('C002','Goa','Delhi','4040');

insert into route values('C003','Varansi','Ahmedabad','3400');

insert into route values('C004','Ahmedabad','Delhi','4600');

insert into route values('C005','Delhi','Jaipur','6600');

insert into route values('C006','Delhi','Dubai','14600');

insert into route values('C007','Delhi','Landon','24600');

insert into route values('C008','Goa','Dubai','19600');

insert into route values('C009','Goa','Landon','4600');

insert into route values('C010','Dubai','Landon','5600');

insert into route values('D001','Pune','Bengalooru','4300');

insert into route values('D002','Mumbai','Channai','4500');

insert into route values('D003','Mumbai','Bengalooru','2400');

insert into route values('D004','Portblair','Mumbai','4300');

insert into route values('D005','Mumbai','Portblair','1200');

insert into route values('D006','Mumbai','Goa','1200');

insert into route values('D007','Mumbai','Jaipur','1200');

insert into route values('D008','Goa','Jaipur','1200');

insert into route values('E001','Kolkata','Channai','2200');

insert into route values('E002','Hyderabad','Bengalooru','2200');

insert into route values('E003','Kolkata','Jaipur','2100');

insert into route values('E004','Channai','Madurai','3230');

insert into route values('E005','Hyderabad','Pakistan ','530');

insert into route values('E006','Jaipur','Tokyo','530');

insert into route values('E007','Jaipur','Bagdad','530');

insert into route values('E008','Tokyo','Bagdad','530');

insert into route values('F001','Gowahati','Kolkata','400');

insert into route values('F002','Kolkata','Patna','4210');

insert into route values('F003','Colombo','Channai','2343');

insert into route values('F004','Kochi','Agatti','4560');

insert into route values('G001','Kochi','Dubai','4050');

insert into route values('G002','Mumbai','Kochi','4300');

insert into route values('G003','Channai','Thiru','4050');

insert into route values('G004','Kozhikode','Salalah','4700');

insert into route values('G005','Sharjah','Kochi','3400');

insert into route values('I001','Bengalooru','Hyderabad','5600');

insert into route values('I002','Ahmedabad','Channai','4050');

insert into route values('I003','Bengalooru','Visakhapatnam','3400');

insert into route values('I004','Coimbatore','Hyderabad','6400');

insert into route values('I005','Jaipur','Bengalooru','4070');

insert into route values('I006','Ahmedabad','Thiru','4050');

insert into route values('I007','Ahmedabad','Mumbai','4050');

insert into route values('I008','Thiru','Mumbai','4050');

**days:**

insert into days values('MON','Monday');

insert into days values('TUE','Tuesday');

insert into days values('WED','Wednesday');

insert into days values('THRU','Thursday');

insert into days values('FRI','Friday');

insert into days values('SAT','Saturday');

insert into days values('SUN','Sunday');

**all\_path:**

insert into all\_path values('10101','A001');

insert into all\_path values('10101','C001');

insert into all\_path values('10101','C005');

insert into all\_path values('10101','D006');

insert into all\_path values('10101','D007');

insert into all\_path values('10101','D008');

insert into all\_path values('10205','I002');

insert into all\_path values('10205','I006');

insert into all\_path values('10205','I007');

insert into all\_path values('10205','G003');

insert into all\_path values('10205','A004');

insert into all\_path values('10205','I008');

insert into all\_path values('10404','C001');

insert into all\_path values('10404','C006');

insert into all\_path values('10404','C007');

insert into all\_path values('10404','C008');

insert into all\_path values('10404','C009');

insert into all\_path values('10404','C010');

insert into all\_path values('10302','A006');

insert into all\_path values('10302','A007');

insert into all\_path values('10302','A008');

insert into all\_path values('10603','B006');

insert into all\_path values('10603','B007');

insert into all\_path values('10603','B008');

insert into all\_path values('10805','E006');

insert into all\_path values('10805','E007');

insert into all\_path values('10805','E008');

**flight\_route:**

insert into flight\_route values('10101','1','01:10','02:10','MON','A001');

insert into flight\_route values('10101','2','02:40','04:10','MON','D006');

insert into flight\_route values('10101','3','04:10','06:20','MON','D008');

insert into flight\_route values('10205','1','05:10','06:50','TUE','I002');

insert into flight\_route values('10205','2','07:10','08:50','TUE','G003');

insert into flight\_route values('10205','3','09:10','10:50','TUE','I008');

insert into flight\_route values('10404','1','02:30','04:45','WED','C001');

insert into flight\_route values('10404','2','05:30','07:45','WED','C008');

insert into flight\_route values('10404','3','08:30','11:45','WED','C010');

insert into flight\_route values('10302','1','12:30','14:45','THRU','A006');

insert into flight\_route values('10302','2','15:30','18:45','THRU','A007');

insert into flight\_route values('10603','1','14:30','16:45','FRI','B006');

insert into flight\_route values('10603','2','17:30','18:45','FRI','B007');

insert into flight\_route values('10805','1','17:20','18:45','SAT','E006');

insert into flight\_route values('10805','2','19:10','21:45','SAT','E008');

**users:**

insert into users values('201452074','Akriti','Bhadoriya','F','1997-06-23','akritib@gmail.com','9783456287','Rajasthan','India');

insert into users values('201451080','Abhisek','Katara','M','1996-08-13','abkatara@gmail.com','9783465387','Rajasthan','India');

insert into users values('201452064','Monika','Singh','F','1997-01-12','monikasingh@gmail.com','9783456786','Bihar','India');

insert into users values('201451051','Sneha','Bist','F','1997-05-21','snehab@gmail.com','9742556287','MP','India');

insert into users values('201452052','Kshitiz','Khinchi','M','1996-01-15','kshikhug@gmail.com','9783458957','Rajasthan','India');

insert into users values('201451014','Himanshu','Singal','M','1995-02-28','himanshub@45gmail.com','7783436287','UP','India');

insert into users values('201452003','Gaurav','Dawer','M','1995-06-21','ghitib@gmail.com','8783456287','MP','India');

insert into users values('201451007','Anil','Kumar','M','1995-01-22','anilib@34gmail.com','9782346287','Rajasthan','India');

insert into users values('201451032','Saurabh','Shrivastav','M','1997-03-11','sunkritib@3gmail.com','9783452387','Bihar','India');

insert into users values('201452012','Shrihansh','Meena','M','1995-08-12','shiyttab@12gmail.com','9798756287','Punjab','India');

**class :**

insert into class values(1,'Other');

insert into class values(2,'Genral');

**ticket:**

insert into ticket values('AAAAA00001','201452074','10101',2,'A001','2016-02-23','2016-03-12');

insert into ticket values('AAAAA00002','201451080','10404',1,'C009','2016-01-02','2016-04-06');

insert into ticket values('AAAAA00003','201452064','10205',2,'G003','2015-12-23','2016-02-12');

insert into ticket values('AAAAA00004','201451051','10302',2,'A006','2016-02-09','2016-03-25');

insert into ticket values('AAAAA00005','201452052','10603',2,'B007','2016-01-29','2016-03-05');

insert into ticket values('AAAAA00006','201451014','10805',1,'E006','2015-11-23','2016-01-12');

insert into ticket values('AAAAA00007','201452003','10101',2,'D007','2016-02-23','2016-03-12');

insert into ticket values('AAAAA00008','201452007','10205',1,'I006','2016-10-12','2016-12-22');

insert into ticket values('AAAAA00009','201451051','10302',2,'A008','2016-06-22','2016-11-25');

insert into ticket values('AAAAA00010','201452052','10805',2,'E008','2016-01-29','2016-06-05');

**passenger\_status:**

insert into passenger\_status values('AAA','Adult');

insert into passenger\_status values('BBB','Child');

insert into passenger\_status values('CCC','PWD');

**fare\_detail:**

insert into fare\_detail values('I002',2,'AAA',2000,'10205');

insert into fare\_detail values('I002',2,'BBB',1600,'10205');

insert into fare\_detail values('I002',2,'CCC',1400,'10205');

insert into fare\_detail values('I002',1,'AAA',12000,'10205');

insert into fare\_detail values('I002',1,'BBB',11000,'10205');

insert into fare\_detail values('I002',1,'CCC',10000,'10205');

insert into fare\_detail values('G003',2,'AAA',2020,'10205');

insert into fare\_detail values('G003',2,'BBB',1640,'10205');

insert into fare\_detail values('G003',2,'CCC',1410,'10205');

insert into fare\_detail values('G003',1,'AAA',12400,'10205');

insert into fare\_detail values('G003',1,'BBB',11100,'10205');

insert into fare\_detail values('G003',1,'CCC',10500,'10205');

insert into fare\_detail values('I008',2,'AAA',2100,'10205');

insert into fare\_detail values('I008',2,'BBB',1500,'10205');

insert into fare\_detail values('I008',2,'CCC',1100,'10205');

insert into fare\_detail values('I008',1,'AAA',15000,'10205');

insert into fare\_detail values('I008',1,'BBB',10000,'10205');

insert into fare\_detail values('I008',1,'CCC',8000,'10205');

insert into fare\_detail values('A001',2,'AAA',2000,'10101');

insert into fare\_detail values('A001',2,'BBB',1600,'10101');

insert into fare\_detail values('A001',2,'CCC',1400,'10101');

insert into fare\_detail values('A001',1,'AAA',12000,'10101');

insert into fare\_detail values('A001',1,'BBB',11000,'10101');

insert into fare\_detail values('I002',1,'CCC',10000,'10201');

insert into fare\_detail values('D006',2,'AAA',2000,'10101');

insert into fare\_detail values('D006',2,'BBB',1600,'10101');

insert into fare\_detail values('D006',2,'CCC',1400,'10101');

insert into fare\_detail values('D006',1,'AAA',12000,'10101');

insert into fare\_detail values('D006',1,'BBB',11000,'10101');

insert into fare\_detail values('D006',1,'CCC',10000,'10101');

insert into fare\_detail values('D008',2,'AAA',2000,'10101');

insert into fare\_detail values('D008',2,'BBB',1600,'10101');

insert into fare\_detail values('D008',2,'CCC',1400,'10101');

insert into fare\_detail values('D008',1,'AAA',12000,'10101');

insert into fare\_detail values('D008',1,'BBB',11000,'10101');

insert into fare\_detail values('D008',1,'CCC',10000,'10101');

insert into fare\_detail values('C001',2,'AAA',2000,'10404');

insert into fare\_detail values('C001',2,'BBB',1600,'10404');

insert into fare\_detail values('C001',2,'CCC',1400,'10404');

insert into fare\_detail values('C001',1,'AAA',12000,'10404');

insert into fare\_detail values('C001',1,'BBB',11000,'10404');

insert into fare\_detail values('C001',1,'CCC',10000,'10404');

insert into fare\_detail values('C008',2,'AAA',2000,'10404');

insert into fare\_detail values('C008',2,'BBB',1600,'10404');

insert into fare\_detail values('C008',2,'CCC',1400,'10404');

insert into fare\_detail values('C008',1,'AAA',12000,'10404');

insert into fare\_detail values('C008',1,'BBB',11000,'10404');

insert into fare\_detail values('C008',1,'CCC',10000,'10404');

insert into fare\_detail values('C010',2,'AAA',2000,'10404');

insert into fare\_detail values('C010',2,'BBB',1600,'10404');

insert into fare\_detail values('C010',2,'CCC',1400,'10404');

insert into fare\_detail values('C010',1,'AAA',12000,'10404');

insert into fare\_detail values('C010',1,'BBB',11000,'10404');

insert into fare\_detail values('C010',1,'CCC',10000,'10404');

insert into fare\_detail values('A006',2,'AAA',2000,'10302');

insert into fare\_detail values('A006',2,'BBB',1600,'10302');

insert into fare\_detail values('A006',2,'CCC',1400,'10302');

insert into fare\_detail values('A006',1,'AAA',12000,'10302');

insert into fare\_detail values('A006',1,'BBB',11000,'10302');

insert into fare\_detail values('A006',1,'CCC',10000,'10302');

insert into fare\_detail values('A007',2,'AAA',2000,'10302');

insert into fare\_detail values('A007',2,'BBB',1600,'10302');

insert into fare\_detail values('A007',2,'CCC',1400,'10302');

insert into fare\_detail values('A007',1,'AAA',12000,'10302');

insert into fare\_detail values('A007',1,'BBB',11000,'10302');

insert into fare\_detail values('A007',1,'CCC',10000,'10302');

insert into fare\_detail values('D006',2,'AAA',2000,'10603');

insert into fare\_detail values('D006',2,'BBB',1600,'10603');

insert into fare\_detail values('D006',2,'CCC',1400,'10603');

insert into fare\_detail values('D006',1,'AAA',12000,'10603');

insert into fare\_detail values('D006',1,'BBB',11000,'10603');

insert into fare\_detail values('D006',1,'CCC',10000,'10603');

insert into fare\_detail values('D007',2,'AAA',2000,'10603');

insert into fare\_detail values('D007',2,'BBB',1600,'10603');

insert into fare\_detail values('D007',2,'CCC',1400,'10603');

insert into fare\_detail values('D007',1,'AAA',12000,'10603');

insert into fare\_detail values('D007',1,'BBB',11000,'10603');

insert into fare\_detail values('D007',1,'CCC',10000,'10603');

insert into fare\_detail values('E006',2,'AAA',2000,'10805');

insert into fare\_detail values('E006',2,'BBB',1600,'10805');

insert into fare\_detail values('E006',2,'CCC',1400,'10805');

insert into fare\_detail values('E006',1,'AAA',12000,'10805');

insert into fare\_detail values('E006',1,'BBB',11000,'10805');

insert into fare\_detail values('E006',1,'CCC',10000,'10805');

insert into fare\_detail values('E008',2,'AAA',2000,'10805');

insert into fare\_detail values('E008',2,'BBB',1600,'10805');

insert into fare\_detail values('E008',2,'CCC',1400,'10805');

insert into fare\_detail values('E008',1,'AAA',12000,'10805');

insert into fare\_detail values('E008',1,'BBB',11000,'10805');

insert into fare\_detail values('E008',1,'CCC',10000,'10805');

**passenger:**

insert into passenger values('AAAAA00001','10','Arti','Bhadoriya','F',20,'AAA');

insert into passenger values('AAAAA00001','11','Abhishek','khatra','M',20,'AAA');

insert into passenger values('AAAAA00001','12','Pankaj','Bhadoriya','M',20,'AAA');

insert into passenger values('AAAAA00001','14','Vishal','Chandel','M',20,'AAA');

insert into passenger values('AAAAA00002','10','Deepak','Goyal','M',20,'AAA');

insert into passenger values('AAAAA00003','10','Aditi','Singh','F',20,'AAA');

insert into passenger values('AAAAA00004','10','Ankit','Gupta','M',20,'AAA');

insert into passenger values('AAAAA00005','10','Ashish','Verma','M',20,'AAA');

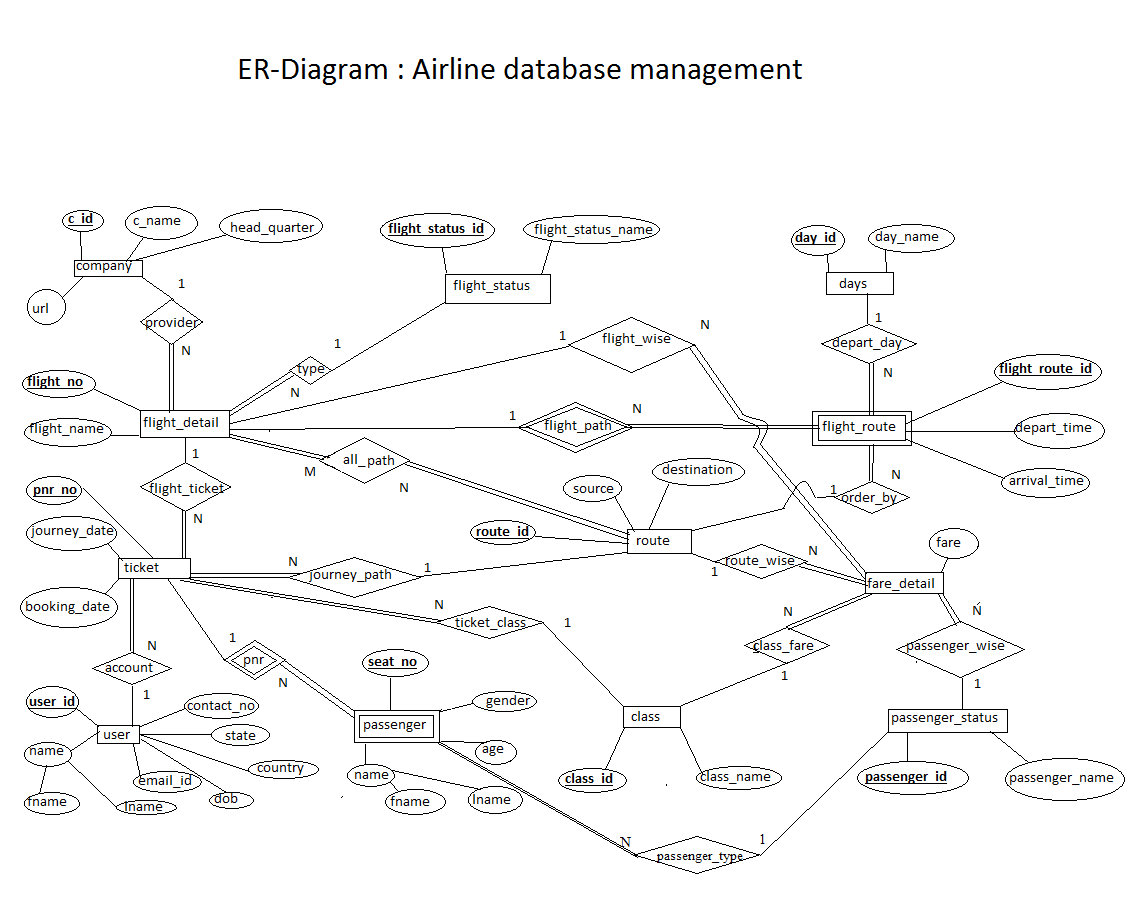
insert into passenger values('AAAAA00006','10','Chirag','saini','M',20,'AAA');

insert into passenger values('AAAAA00007','10','Kouashal','Suman','M',20,'AAA');

insert into passenger values('AAAAA00008','10','Sourbh','Nitinware','M',20,'AAA');

insert into passenger values('AAAAA00009','10','AJIT','JAIN','M',20,'AAA');

insert into passenger values('AAAAA00010','10','JITU', 'Rathore','M',20,'AAA');



Relation Schema

