SQL Query

Airlines Database

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:

		flight_name character varying(30)
1	10101	6E-187
2	10102	6E-134
3	10103	6E-343
4	10104	6E-278
5	10105	6E-236

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:

	flight_name character varying(30)	source character varying(20)	destination character varying(20)
1	6E-187	Delhi	Mumbai
2	6E-187	Delhi	Goa
3	6E-187	Delhi	Jaipur
4	6E-187	Mumbai	Goa
5	6E-187	Mumbai	Jaipur
6	6E-187	Goa	Jaipur

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;

			depart_time time without time zone	arrival_time time without time zone		destination character varying(20)
1	10101	6E-187	01:10:00	02:10:00	Delhi	Mumbai
2	10101	6E-187	02:40:00	04:10:00	Mumbai	Goa
3	10101	6E-187	04:10:00	06:20:00	Goa	Jaipur

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:

		fare integer	passenger_status_name character varying(15)	class_name character varying(20)
1	10205	2000	Adult	Genral
2	10205	1600	Child	Genral
3	10205	1400	PWD	Genral
4	10205	12000	Adult	Business
5	10205	11000	Child	Business
6	10205	10000	PWD	Business
7	10201	10000	PWD	Business

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:

			flight_name character varying(30)	source character varying(20)	destination character varying(20)
1	1010	1	6E-187	Delhi	Mumbai

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

			passenger_status_id character(3)	route_id character(4)	fare integer	
1	1	10205	AAA	1008	15000	

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;

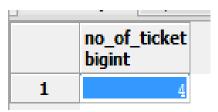
Output:

Data C	ata Output Explain Messages History											
	pnr_no character(10)		lname character varying(15)	gender character varying(10)							journey_date date	fare integer
1	AAAAA00001	Arti	Bhadoriya	F	20	10101	6E-187	Delhi	Mumbai	2016-02-23	2016-03-12	2000
2	AAAAA00001	Abhishek	khatra	M	20	10101	6E-187	Delhi	Mumbai	2016-02-23	2016-03-12	2000
3	AAAAA00001	Pankaj	Bhadoriya	M	20	10101	6E-187	Delhi	Mumbai	2016-02-23	2016-03-12	2000
4	AAAAA00001	Vishal	Chandel	M	20	10101	6E-187	Delhi	Mumbai	2016-02-23	2016-03-12	2000

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';



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:

	no_of_ticket bigint	
1	5	

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:

	c_id character(3)		c_name character varying(20)
1	104	5	Go Air
2	110	5	Air One
3	101	5	Indigo
4	106	5	Air India
5	107	5	AirIndiaExpress
6	103	5	VistraAirlines
7	108	5	Air Costa
8	105	5	Spice Jet
9	109	5	AirPegasus
10	102	5	Jet Airways

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:

		fname character varying(15)	Iname character varying(15)	gender character varying(10)	dob date			state character varying(15)		count bigint
1	201452052	Kshitiz	Khinchi	M	1996-01-15	kshikhug@gmail.com	9783458957	Rajasthan	India	2
2	201451051	Sneha	Bist	F	1997-05-21	snehab@gmail.com	9742556287	MP	India	2

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:

	flight_no character(5)	count bigint
1	10805	2
2	10302	2
3	10404	1
4	10603	1
5	10101	5
6	10205	2

Q14. Update profile

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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_n ame 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:

		flight_name character varying(30)	source character varying(20)	destination character varying(20)	depart_time time without time zone	arrival_time time without time zone	day_name character varying(13)
1	10101	6E-187	Delhi	Mumbai	01:10:00	02:10:00	Monday

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

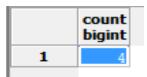
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SQL: select pnr_no,count(seat_no) as cc from (select * from
flight_route join ticket on(flight_route.route_id=ticket.route_id and
  flight_route.flight_no=ticket.flight_no )) as r natural join passenger
group by pnr_no having count(seat_no) >= all ( 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:
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	pnr_no character(10)	cc bigint
1	AAAAA00001	4

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);

	route_id character(4)	count bigint
1	A007	1
2	C008	1
3	D006	1
4	C010	1
5	B007	1
6	A001	1
7	G003	1
8	E006	1
9	A006	1
10	B006	1
11	D008	1
12	1002	1
13	1008	1
14	E008	1
15	C001	1