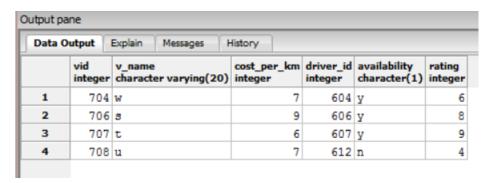# Queries

1.Give details of vehicle booked between particular date(e.g 2016-04-12 and 2016-09-12)

select vehicle.*from vehicle natural join(

select * from booking where booking_date between '2016-04-12'and'2016-09-12')as r1;

Output pane

Data Output Explain Messages History

	vid integer	v_name character varying(20)	cost_per_km integer	driver_id integer	availability character(1)	rating integer
1	704	w	7	604	y	6
2	706	s	9	606	y	8
3	707	t	6	607	y	9
4	708	u	7	612	n	4

2.List customer id who have got discount more than 5

select customer_id from bill join (

select *from discount where dis_amount>5

) as r

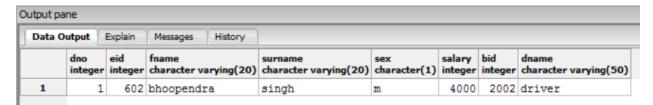on r.dis_id=bill.discount_id;

Output pane

Data Output Explain

	customer_id integer
1	101
2	104
3	105
4	107
5	109
6	102
7	101

3.Details of employee where dname is driver and branch name is B

select r1.*from branch join (select *from employee natural join
department where dname='driver')as r1 on branch.branch_id=r1.bid
where branch_name='B';

Output pane

	dno integer	eid integer	fname character varying(20)	surname character varying(20)	sex character(1)	salary integer	bid integer	dname character varying(50)
1	1	602	bhoopendra	singh	m	4000	2002	driver

4.List down all the vehicles available with rating greater than 4

select *from vehicle where availability='y'and rating>4;

Output pane

	vid integer	v_name character varying(20)	cost_per_km integer	driver_id integer	availability character(1)	rating integer
1	701	z	10	601	y	5
2	704	w	7	604	y	6
3	706	s	9	606	y	8
4	707	t	6	607	y	9
5	709	r	8	613	y	6
6	710	z	10	612	y	5
7	711	z	10	613	y	5

5.list down details of customer including email and phone who have booked the service more than once

select * from customer natural join customer_email natural join customer_phone natural join pin_code
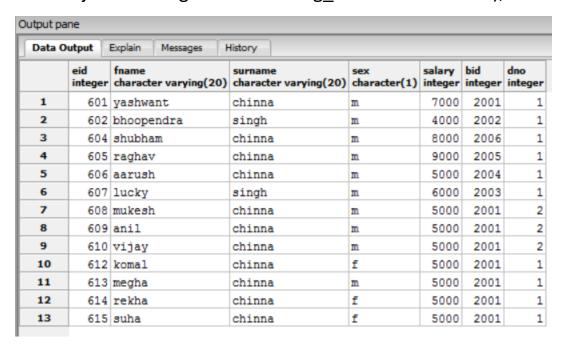
where customer_id in

(select cid from (select cid,count(booking_no) as number from booking group by cid having count(booking_no)>1)as r2

);

	pin integer	customer_id integer	fname character varying(20)	surname character varying(20)	gender character(1)	street_no integer	house_no integer	age smallint	email character varying(40)	phone integer	city character varying(50)	state character varying(30)
1	123456	101	vikas	singh	m	201	301	19	201452032@iiitvadodara.ac.in	201452032	gandhinagar	gujrat
2	123456	101	vikas	singh	m	201	301	19	201452032@iiitvadodara.ac.in	201452033	gandhinagar	gujrat

6.list employees of dno 1 who were free on particular date(e.g 2016-12-01)

select * from employee where eid not in(select driver_id from vehicle natural join booking where booking_date='2016-12-01');

	eid integer	fname character varying(20)	surname character varying(20)	sex character(1)	salary integer	bid integer	dno integer
1	601	yashwant	chinna	m	7000	2001	1
2	602	bhoopendra	singh	m	4000	2002	1
3	604	shubham	chinna	m	8000	2006	1
4	605	raghav	chinna	m	9000	2005	1
5	606	aarush	chinna	m	5000	2004	1
6	607	lucky	singh	m	6000	2003	1
7	608	mukesh	chinna	m	5000	2001	2
8	609	anil	chinna	m	5000	2001	2
9	610	vijay	chinna	m	5000	2001	2
10	612	komal	chinna	f	5000	2001	1
11	613	megha	chinna	m	5000	2001	1
12	614	rekha	chinna	f	5000	2001	1
13	615	suha	chinna	f	5000	2001	1

7. find the date on which total amount is maximum;

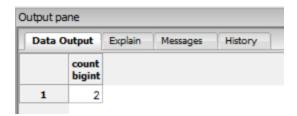select sum(total_amount),booking_date from bill join booking on (bill.booking_no=booking.booking_no) group by booking_date order by sum desc limit 1;

Output pane

	sum bigint	booking_date date
1	1020	2016-12-01

8. Number of bookings by customer_id 101

select count(booking_no) from booking where cid=101;

Output pane

	count bigint
1	2

9. total bill amount on particular date(e.g 2016-12-01)

select sum(total_amount) from (select booking_no from booking where booking_date='2016-12-01') as r1 natural join bill;

Output pane

	sum bigint
1	510

10.list down salary along with other details of female drivers having salary greater than 4000

select * from employee natural join department where dname='driver' and sex='f' and salary>4000;

Output pane

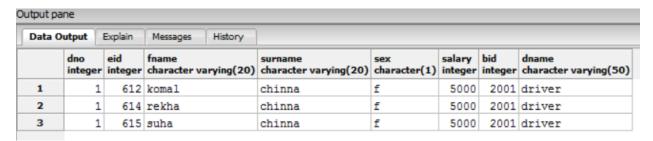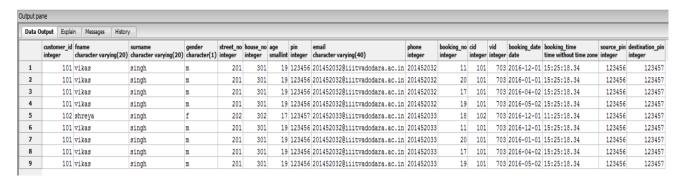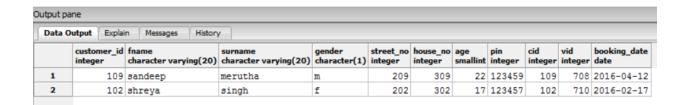|	dno integer	eid integer	fname character varying(20)	surname character varying(20)	sex character(1)	salary integer	bid integer	dname character varying(50)
1	1	612	komal	chinna	f	5000	2001	driver
2	1	614	rekha	chinna	f	5000	2001	driver
3	1	615	suha	chinna	f	5000	2001	driver

11.list down all journey and customer detail of journey from Gandhinagar to Jaipur

select * from customer natural join customer_email natural join customer_phone join (select * from booking where source_pin in(select pin from pin_code where city='gandhinagar') and destination_pin in(select pin from pin_code where city='jaipur'))as r1 on r1.cid=customer.customer_id;

Output pane

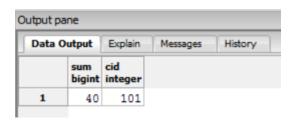|	customer_id integer	fname character varying(20)	surname character varying(20)	gender character(1)	street_no integer	house_no integer	age smallint	pin integer	email character varying(40)	phone integer	booking_no integer	cid integer	vid integer	booking_date date	booking_time time without time zone	source_pin integer	destination_pin integer
1	101	vikas	singh	m	201	301	19	123456	201452032@iiitvadodara.ac.in	201452032	11	101	703	2016-12-01	15:25:18.34	123456	123457
2	101	vikas	singh	m	201	301	19	123456	201452032@iiitvadodara.ac.in	201452032	20	101	703	2016-01-01	15:25:18.34	123456	123457
3	101	vikas	singh	m	201	301	19	123456	201452032@iiitvadodara.ac.in	201452032	17	101	703	2016-04-02	15:25:18.34	123456	123457
4	101	vikas	singh	m	201	301	19	123456	201452032@iiitvadodara.ac.in	201452032	19	101	703	2016-05-02	15:25:18.34	123456	123457
5	102	shreya	singh	f	202	302	17	123457	201452033@iiitvadodara.ac.in	201452033	18	102	703	2016-12-01	11:25:18.34	123456	123457
6	101	vikas	singh	m	201	301	19	123456	201452032@iiitvadodara.ac.in	201452033	11	101	703	2016-12-01	15:25:18.34	123456	123457
7	101	vikas	singh	m	201	301	19	123456	201452032@iiitvadodara.ac.in	201452033	20	101	703	2016-01-01	15:25:18.34	123456	123457
8	101	vikas	singh	m	201	301	19	123456	201452032@iiitvadodara.ac.in	201452033	17	101	703	2016-04-02	15:25:18.34	123456	123457
9	101	vikas	singh	m	201	301	19	123456	201452032@iiitvadodara.ac.in	201452033	19	101	703	2016-05-02	15:25:18.34	123456	123457

12.find customer detail who have gone with female driver

select * from customer join (select cid,vid,booking_date from booking natural join (select * from vehicle join (select * from employee natural join department where sex='f'and dname='driver')as r1 on r1.eid=vehicle.driver_id)as r2)as r3 on r3.cid=customer.customer_id;

	customer_id integer	fname character varying(20)	surname character varying(20)	gender character(1)	street_no integer	house_no integer	age smallint	pin integer	cid integer	vid integer	booking_date date
1	109	sandeep	merutha	m	209	309	22	123459	109	708	2016-04-12
2	102	shreya	singh	f	202	302	17	123457	102	710	2016-02-17

13. find customer id who have got maximum total amount

select sum(dis_amount),cid from discount join bill on bill.discount_id=discount.dis_id join booking on (bill.booking_no=booking.booking_no) group by cid order by sum desc limit 1;

	sum bigint	cid integer
1	40	101

14.find out the vehicle which have earned maximum revenue

select * from vehicle natural join (select vid,sum(total_amount) from bill group by vid order by sum desc limit 1)as r1;

	vid integer	v_name character varying(20)	cost_per_km integer	driver_id integer	availability character(1)	rating integer	sum bigint
1	703	x	12	603	n	5	2560