Queries

Number of boats that travelled in a particular route during a given period of time.
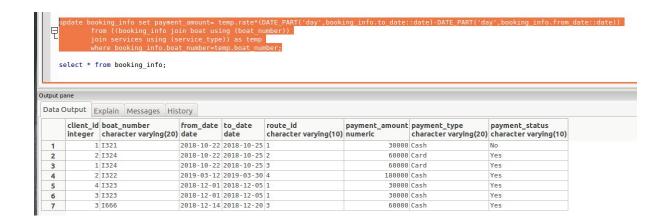
```
select route_id,count(*) from booking_info where from_date >= '01-DEC-2018' and from_date <= '30-DEC-2018' group by route_id ;

select * from booking_info;
select route_id,count(*) from booking_info group by route_id ;
```

Output pane

Data Output | Explain | Messages | History

	route_id character varying(10)	count bigint
1	3	1
2	1	2

Sorts all the clients in increasing order of date of birth.

```
select * from client_info order by client_dob asc;
```

Output pane

Data Output | Explain | Messages | History

	client_id integer	client_first_name character varying(50)	client_last_name character varying(50)	client_city character varying(50)	client_country character varying(50)	client_dob date
1	3	Surya Chaitanya	Palepu	Hyderabad	India	1998-08-12
2	2	Vyshnavi	Ravella	Guntur	India	1998-11-15
3	1	Sai Satwik	Kuppili	Vizag	India	1998-11-27
4	4	Sai Sarath Chandra	Ganti	Chegai	Pakistan	1998-11-29

Displays the client name and boat details of all the persons who made their booking on a particular date.

```
select client_first_name,client_last_name,boat.boat_number,boat_capacity
    from (booking_info join boat on booking_info.boat_number=boat.boat_number)
    join client_info using (client_id)
    where booking_info.from_date='14-DEC-2018';

update booking_info set payment_amount= temp.rate*(DATE_PART('day',booking_info.to_date::
    from ((booking_info join boat using (boat_number))
```

Output pane

Data Output | Explain | Messages | History

	client_first_name character varying(50)	client_last_name character varying(50)	boat_number character varying(20)	boat_capacity integer
1	Surya Chaitanya	Palepu	I666	100

Updates the Payment amount for every customer based on the number of days of booking and rate of the boat.

```
update booking_info set payment_amount= temp.rate*(DATE_PART('day',booking_info.to_date::date)-DATE_PART('day',booking_info.from_date::date))
    from ((booking_info join boat using (boat_number))
    join services using (service_type)) as temp
    where booking_info.boat_number=temp.boat_number;

select * from booking_info;
```

Output pane

Data Output | Explain | Messages | History

	client_id integer	boat_number character varying(20)	from_date date	to_date date	route_id character varying(10)	payment_amount numeric	payment_type character varying(20)	payment_status character varying(10)
1	1	I321	2018-10-22	2018-10-25	1	30000	Cash	No
2	2	I324	2018-10-22	2018-10-25	2	60000	Card	Yes
3	1	I324	2018-10-22	2018-10-25	3	60000	Card	Yes
4	2	I322	2019-03-12	2019-03-30	4	180000	Cash	Yes
5	4	I323	2018-12-01	2018-12-05	1	30000	Cash	Yes
6	3	I323	2018-12-01	2018-12-05	1	30000	Cash	Yes
7	3	I666	2018-12-14	2018-12-20	3	60000	Cash	Yes

Displays all the clients whose name has the substring 'sai'.

```
select * from client_info where client_first_name like '%Sai%';
```

Output pane

Data Output | Explain | Messages | History

	client_id integer	client_first_name character varying(50)	client_last_name character varying(50)	client_city character varying(50)	client_country character varying(50)	client_dob date
1	1	Sai Satwik	Kuppili	Vizag	India	1998-11-27
2	4	Sai Sarath Chandra	Ganti	Chegai	Pakistan	1998-11-29

Display the details of all the clients who have neither booked Luxury nor a normal boat.

```
select client_id,client_first_name from client_info
    where client_id IN
    (select client_id
    from ( booking_info join boat using (boat_number) )as temp
    where temp.service_type NOT IN ('Luxury','Normal'));
```

Output pane

Data Output | Explain | Messages | History

	client_id integer	client_first_name character varying(50)
1	1	Sai Satwik
2	2	Vyshnavi

Displays the list of all the clients who booked either a luxury or a Normal boat.

```
select client_id,client_first_name from client_info
       where client_id IN
       (select client_id
       from ( booking_info join boat using (boat_number) )as temp
       where temp.service_type  IN ('Luxury'))
       union
       select client_id,client_first_name from client_info
       where client_id IN
       (select client_id
       from ( booking_info join boat using (boat_number) )as temp
       where temp.service_type IN ('Normal'));
```

	client_id integer	client_first_name character varying(50)
1	1	Sai Satwik
2	2	Vyshnavi
3	3	Surya Chaitanya
4	4	Sai Sarath Chandra

Displays the details of clients who have made their bookings in the month of december if atleast one of the booking has a boat that travels in the specified route.

```
select client_info.client_first_name
       from (booking_info join client_info using (client_id))
       where from_date between '01-DEC-2018' and '31-DEC-2018'  and  exists (select* from booking_info where route_id = '3' and from_date between '01-DEC-2018' and '31-DEC-2018');
```

	client_first_name character varying(50)
1	Sai Sarath Chandra
2	Surya Chaitanya
3	Surya Chaitanya

Displays the month of a particular booking .

```
select client_info.client_first_name
       from (booking_info join client_info using (client_id))
       where from_date between '01-DEC-2018' and '31-DEC-2018'  and  exists (select* from booking_info where route_id = '3' and from_date between
select EXTRACT(MONTH from (select from_date from booking_info where from_date='22-OCT-2018' and client_id=1  and boat_number='I321'));
```

	date_part double precision
1	10