Queries

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1. Get the name and customer_ids of the customers who stayed in the room 705 for atleast 3 days.
2. Get the average stay duration for each room, order in desc.
3. Get the name and customer_ids of the most frequent customers.
4. Get the payment history of the month of march, year 2022, also get the room number and customer details.
5. Get the monthly revenue of the hotel for the year 2022.
6. Get all the reservations of the best rooms(luxury type) in the 1st week of march.

```
1      -- Q1
2   •  drop view if exists v1;
3   •⊝ create view v1 as(
4      select r.customer_id, r.stay_duration from reservation as r
5      where r.stay_duration >= 3 and r.room_no = 705
6      order by r.stay_duration desc
7      );
8   •  select c.customer_name, c.customer_id, v.stay_duration
9      from Customer as c, v1 as v
10     where c.customer_id = v.customer_id;
11     -- done
12
```

100%   37:10

Result Grid | Filter Rows: Search | Export:

customer_name	customer_id	stay_duration
▶ pragya	7050	5

```
1      -- Q2
2   •  select r.room_no, avg(r.stay_duration) as avgStay
3      from reservation as r
4      group by r.room_no
5      order by avg(r.stay_duration) desc;
6      -- done
7
```

100%   1:7

Result Grid | Filter Rows: Search | Export:

room_no	avgStay
▶ 610	10.0000
110	10.0000
410	10.0000
310	10.0000
210	10.0000
510	10.0000
209	9.0000
609	9.0000
109	9.0000
509	9.0000
309	9.0000
409	9.0000
508	8.0000
108	8.0000
608	8.0000
208	8.0000
308	8.0000
408	8.0000
407	7.0000
507	7.0000
107	7.0000
607	7.0000
207	7.0000
307	7.0000
406	6.0000
306	6.0000
206	6.0000

```
1    -- Q3
2    drop view if exists v1;
3  ●⊝ create view v1 as(
4    select r.customer_id, count(r.reservation_id) as numVisits
5    from reservation as r
6    group by r.customer_id
7    );
8  ● drop view if exists v2;
9  ●⊝ create view v2 as(
10   select v.customer_id, v.numVisits
11   from v1 as v
12   where v.numVisits >= ALL(select numVisits from v1)
13   );
14
15 ● select c.customer_name, c.customer_id, v.numVisits
16   from customer as c, v2 as v
17   where v.customer_id = c.customer_id;
18   -- done
```

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Result Grid | Filter Rows: Search | Export:

customer_name	customer_id	numVisits
garvika	7060	4
anish	7070	4
seshank	7080	4
sohum	7090	4
gowtham	7100	4

Result Grid

Form Editor

```
1    -- Q4
2  ● drop view if exists v1;
3  ●⊝ create view v1 as (
4    select * from payment as p
5    where year(p.payment_date) = 2022 and month(p.payment_date) = 3);
6
7  ● drop view if exists v2;
8  ●⊝ create view v2 as (
9    select v.payment_id, v.amount, v.p_customer_id, r.room_no
10   from v1 as v, reservation as r
11   where r.reservation_id = v.reservation_id
12   );
13 ● select c.customer_id, c.customer_name, c.email_id
14   from customer as c, v2 as v
15   where c.customer_id = v.p_customer_id;
16   -- done
```

100% ⌄ 50:13

Result Grid | Filter Rows: Search | Export:

customer_id	customer_name	email_id
3010	jack	jack@gmail.com
3020	levi	levi@gmail.com
3030	alexander	alexander@gmail.com
3040	jackson	jackson@gmail.com
3050	mateo	mateo@gmail.com
3060	daniel	daniel@gmail.com
3070	michael	michael@gmail.com
3080	mason	mason@gmail.com
3090	sebastian	sebastian@gmail.com
3100	ethan	ethan@gmail.com
7060	garvika	garvika@gmail.com
7070	anish	anish@gmail.com
7080	seshank	seshank@gmail.com
7090	sohum	sohum@gmail.com
7100	gowtham	gowtham@gmail.com

Result Grid

Form Editor

Field Types

Query Stats

```
1    -- Q5
2    drop view if exists v1;
3  •⊖ create view v1 as (
4    select * from payment as p
5    where year(p.payment_date) = 2022);
6
7  •  select month(v.payment_date) as Month,sum(v.amount) as revenue
8    from v1 as v
9    group by month(v.payment_date)
10   order by month(v.payment_date);
11   -- done
```

100%   8:11

Result Grid   Filter Rows: 🔍 Search   Export:

Month	revenue
1	950000
2	950000
3	900000
4	820000
5	820000
6	820000
7	820000

```
1    -- Q6
2    drop view if exists v1;
3  •⊖ create view v1 as(
4    select * from reservation as r
5    where year(r.res_date) = 2022 and
6        month(r.res_date) = 3 and
7            day(r.res_date)>=1 and
8                day(r.res_date)<=7);
9  •  select v.room_no, v.reservation_id, r.room_type, v.res_date
10   from v1 as v, room as r
11   where v.room_no = r.room_no and r.room_type = "luxury";
12   -- done
```

100%   1:13

Result Grid   Filter Rows: 🔍 Search   Export:

room_no	reservation_id	room_type	res_date
708	89	luxury	2022-03-01
709	92	luxury	2022-03-01
710	95	luxury	2022-03-01