QUERIES

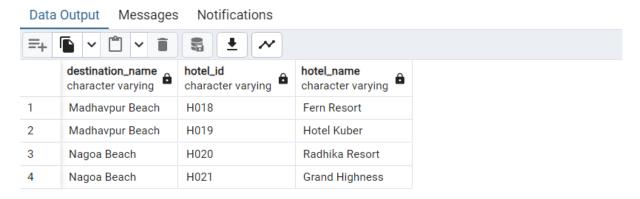
UNLOGGED USER

1. List all the places one can visit near the Polo Forest.

SELECT * FROM Sightseeing_Places WHERE Dest_Name='Polo Forest'

	a Output Messages	Notifications			
=+		<u>*</u> *			
	dest_name	sight_name	timing	ticketprice	dist_from_dest
	[PK] character varying	[PK] character varying	character varying	double precision	double precision
1	Polo Forest	Harnav Dam/river	[null]	220.5	3.2
2	Polo Forest	Polo jain nagri	10:30	120	9.5

2. List the destinations that are of the type of beach. Also give the hotels available at these destinations.



3. Give a list of all sightseeing places where there are no timing restrictions and no ticket prices.

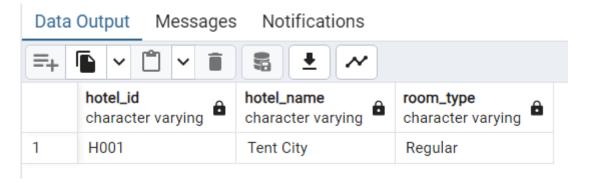
SELECT * FROM Sightseeing_places WHERE Timing IS NULL AND Ticketprice IS NULL

=+		<u>*</u> *			
	dest_name [PK] character varying	sight_name [PK] character varying	timing character varying	ticketprice double precision	dist_from_dest double precision
1	SOU	Sardar Sarovar Dam	[null]	[null]	5
2	SOU	Zarvani waterfall	[null]	[null]	3.5
3	Dwarkadhish Temple	Byet Dwarka	[null]	[null]	60
4	Dwarkadhish Temple	Sunset point	[null]	[null]	4
5	Dwarkadhish Temple	Shivrajpur beach	[null]	[null]	20
6	Runn of Kutch	Mandvi beach	[null]	[null]	138.3
7	Saputara	Gira Dhodh	[null]	[null]	4.2
8	Nagoa Beach	Ghoghala Beach	[null]	[null]	28

4. For each destination, tell the hotel that is nearest to it.

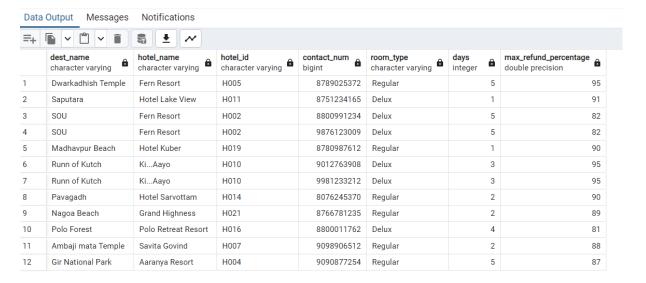
Data	Output Messages	Notifications		
=+				
	dest_name character varying	hotel_id character varying	hotel_name character varying	dist_from_dest double precision
1	Dwarkadhish Temple	H006	Guru Prerna	7
2	Saputara	H012	Tent City	2
3	SOU	H002	Fern Resort	4
4	Madhavpur Beach	H018	Fern Resort	4
5	Runn of Kutch	H009	Hotel White Desert	2
6	Pavagadh	H015	Hotel Ekant	2
7	Nagoa Beach	H021	Grand Highness	1.5
8	Polo Forest	H016	Polo Retreat Resort	1
9	Ambaji mata Temple	H007	Savita Govind	2
10	Gir National Park	H003	Lion's Den	0.5

5. Which hotels have rooms at SOU in the range of Rs 1000 - Rs 3500?



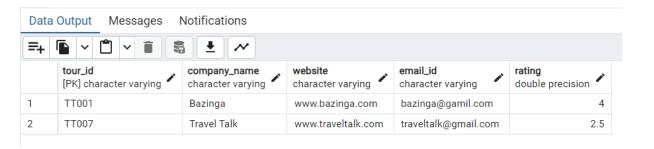
6. Give the hotel contact details which give the maximum refund for each destination.

```
SELECT Ah.Dest Name,
   H.Hotel Name,
   Hd.Hotel Id,
   Hd.Contact Num,
   Rp.Room_Type,
   Rp.Days,
   Rp.Amnt_Per AS MaxRefundPercentage
FROM Refund_Policy Rp
JOIN (
    SELECT Ah.Dest_Name,
        MAX(Rp.Amnt_Per) AS MaxAmntPer
    FROM Refund_Policy Rp
    JOIN Available_Hotels Ah ON Rp.Hotel_Id = Ah.Hotel_Id
    GROUP BY Ah.Dest Name
  ) MaxRefund ON Rp.Amnt_Per = MaxRefund.MaxAmntPer
JOIN Available_Hotels Ah ON Rp.Hotel_Id = Ah.Hotel_Id
AND Ah.Dest Name = MaxRefund.Dest Name
JOIN Hotel_Contact_Detail Hd ON Rp.Hotel_Id = Hd.Hotel_Id
JOIN Hotels AS H ON H.Hotel_Id = Ah.Hotel_Id;
```



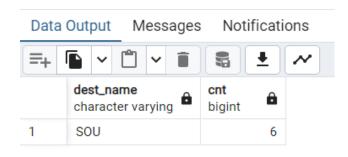
7. Give the tour and travel company details which provide service at religious places.

SELECT DISTINCT Tours_And_Travels.*
FROM Tours_And_Travels
NATURAL JOIN Pricing_Conditions
JOIN Destination AS D ON D.Destination_Name = Pricing_Conditions.Dest_Name
WHERE Dest_Name IN
(SELECT Destination_Name
FROM Destination
WHERE Type_Of_Place = 'Religious Place');



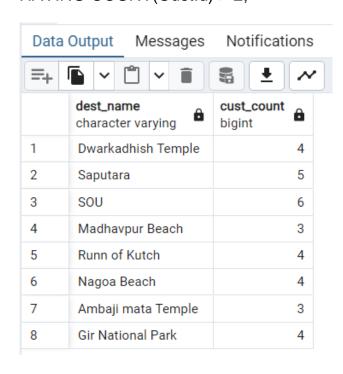
8. Return the destination which is most visited by customers.

SELECT DestName, COUNT(DestName) AS Cnt FROM Visited GROUP BY DestName ORDER BY Cnt DESC LIMIT 1;



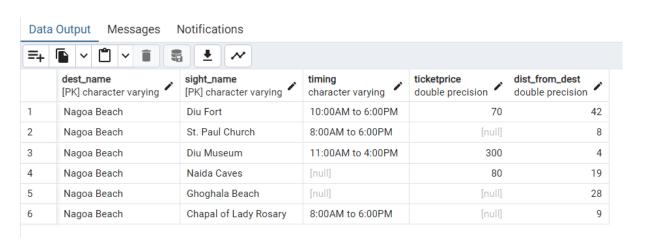
9. List all the destinations where more than 2 customers have given at least 3 stars.

```
SELECT R1.DestName,
COUNT(CustId) AS CustCount
FROM (
SELECT *
FROM RatingDest AS R
WHERE R.Stars >= 3
GROUP BY Stars, CustId, DestName
ORDER BY R.CustId
) AS R1
GROUP BY R1.DestName
HAVING COUNT(CustId) > 2;
```



10. Give the destinations and all of their respective sightseeing places located in Diu city.

```
SELECT DestName, SightName, Timing, TicketPrice, DistFromDest
FROM (
    SELECT *
    FROM Destination
    WHERE City = 'Diu'
) AS R1
JOIN SightseeingPlaces AS R2 ON R2.DestName = R1.DestinationName) AS R3;
```

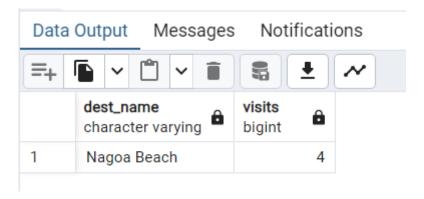


11. Give the details of the tour and travel company that has the lowest consultancy fee for Nagoa Beach.

```
SELECT Tours_And_Travels.*
FROM (
   Tours And Travels NATURAL JOIN (
     SELECT Tourld, MIN(ConsultantFee) AS Fee
     FROM Pricing_Conditions
     WHERE DestName = 'Nagoa Beach'
     GROUP BY Tourld
     ORDER BY Fee
     LIMIT 1
   ) AS R2
);
 Data Output
            Messages
                      Notifications
    <u>*</u>
 =+
                        company_name
                                       website
                                                      email_id
                                                                     rating
                        character varying
                                       character varying
      [PK] character varying
                                                                     double precision
                                                      character varying
 1
      TT005
                        FlyHigh
                                       www.flyhigh.com
                                                      flyhigh@gmail.com
                                                                                 4
```

12. Write a query to find the place that has the highest footfall in the month of February.

SELECT DestName, COUNT(*) AS Visits FROM Visited WHERE EXTRACT(MONTH FROM StartDate) = 2 GROUP BY DestName ORDER BY Visits DESC LIMIT 1;



13. List the destinations and their respective costs if five individuals visit all of the sightseeing spots and spend no more than Rs 5,500.

SELECT Dest_Name, Expenditure FROM(

SELECT Dest_Name, SUM(TicketPrice*5) AS Expenditure From SightSeeing_Places GROUP BY Dest_Name

EXCEPT

SELECT Dest_Name, SUM(TicketPrice*5) AS Expenditure FROM Sightseeing_Places GROUP BY Dest_Name HAVING SUM(TicketPrice*5)>5500

) AS r1 ORDER BY Expenditure

Data	Output Messages	Notifications		
=+				
	dest_name character varying	expenditure double precision		
1	Gir National Park	100		
2	Pavagadh	1500		
3	SOU	1500		
4	Polo Forest	1702.5		
5	Nagoa Beach	2250		
6	Madhavpur Beach	2800		
7	Ambaji mata Temple	[null]		
8	Runn of Kutch	[null]		
9	Dwarkadhish Temple	[null]		

CUSTOMER

1. Return the total number of deluxe rooms available in H002 from January 14 to January 16, 2024.

SELECT COUNT(Room_No) FROM(

(SELECT Room_No FROM room_number WHERE Hotel_ID = 'H002' AND Room_Type = 'Delux')

EXCEPT

(SELECT Room_No FROM bookings WHERE Hotel_ID = 'H002' AND Room_Type = 'Delux' AND StartDate>='2024-01-14')



2. C014 wants to know how much money he will receive if he cancels a booking at hotel H006, R1002, Regular on January 13, 2024.

SELECT BookedDays*Price - BookedDays*Price*Amnt_per/100 AS ReturnAmount FROM(Refund_policy NATURAL JOIN Room_Type NATURAL JOIN

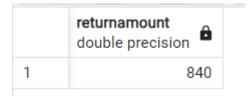
(SELECT Hotel_ID, Room_Type, EndDate-StartDate AS BookedDays, StartDate-'2024-01-14' AS Days FROM Bookings

WHERE Hotel_ID = 'H006' AND Cust_ID = 'C014' AND Room_Type = 'Regular') as

) AS R2

q1

1



3. Customer ID C002 has booked a regular room at Hotel H001 with a start date of February 15, 2024. However, he now wishes to modify the room type to Delux. So, how much would this booking cost him in total, given that the hotel only gives him a partial refund for canceling the usual room?

```
SELECT SUM(New_Price+Price_paid-Refund_Amount) AS Total_Expenditure FROM(
   (SELECT Cust ID, Hotel ID, BookedDays*Price AS Price Paid,
BookedDays*Price*Amnt per/100 AS Refund Amount FROM(
   (SELECT Cust ID, Hotel ID, Room Type, EndDate-StartDate AS BookedDays, StartDate-
'2024-02-13' AS Days FROM Bookings
              WHERE Hotel_ID = 'H001' AND Cust_ID = 'C002' AND StartDate = '2024-02-15'
AND Room_Type = 'Regular') AS r1
   NATURAL JOIN
   Room_Type
   NATURAL JOIN
   Refund_Policy
    ) AS r2
  )AS r3
  NATURAL JOIN
  (SELECT Hotel_ID, Price*2 AS New_Price FROM Room_Type WHERE Hotel_ID = 'H001' AND
Room Type = 'Delux') AS r5
) AS r6
 Data Output
               Messages
 =;
       total_expenditure
       double precision
```

4. A customer named Mohit Sharma wants to know the destination details he has visited on or before February 18, 2024.

```
SELECT Destination.* FROM Destination NATURAL JOIN(
SELECT Dest_Name AS Destination_Name FROM(
Visited AS v

JOIN Customer AS c1 ON v.Cust_ID = c1.Customer_ID) AS r1
WHERE r1.Start_Date <= ('2024-02-18')

AND r1.CustomerName = 'Mohit Sharma'
)AS r2
```

12500

1

	destination_name [PK] character varying	type_of_place character varying	city character varying	nearby_landmark character varying	area character varying	pincode integer	bus_stat_dist double precision	railway_stat_dist double precision
1	SOU	Tourist spot	Bharuch	Statue of Unity Road	Kevadiya	393155	3.5	10
2	Saputara	Hill station	Dang	Near Patang Hotel	Ahwa	394720	1	5
3	Polo Forest	Tourist Spot	Sabarkantha	Near Polo Tent City	Bandhana	383460	7	7

5. On March 20, 2024, C010 visited Nagoa Beach and booked hotel accommodations. Now he wants to know how much did he spend in all if he traveled to every single sightseeing spot also.

SELECT Cust_ID, SUM(Hotel_Price + Sight_price) FROM((SELECT Cust_ID, SUM(BookedDays*Price) AS Hotel_Price FROM(

(SELECT Cust_ID, Hotel_ID, Room_Type, Dest_Name, EndDate-StartDate AS BookedDays FROM Bookings

NATURAL JOIN Available_Hotels

WHERE

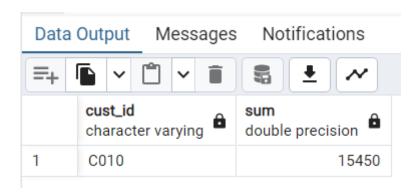
StartDate = '2024-03-20' AND Dest_Name = 'Nagoa Beach' AND Cust_ID = 'C010') AS r1

NATURAL JOIN Room_Type) GROUP BY Cust_ID) AS r2

NATURAL JOIN

(SELECT Cust_ID, SUM(TicketPrice) AS Sight_Price FROM Sightseeing_Places NATURAL JOIN Visited

WHERE Dest_Name = 'Nagoa Beach' AND Cust_ID = 'C010' GROUP BY Cust_ID)AS r3
) AS r4 GROUP BY Cust_ID



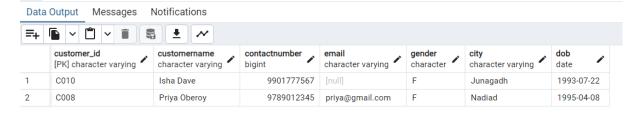
6. Give the customer details of those who booked more than 1 room in the same hotel.

SELECT r1.* FROM(

Customer NATURAL JOIN

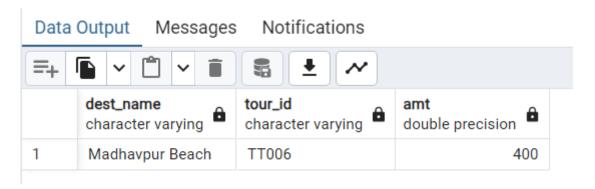
(SELECT Cust_ID AS Customer_ID FROM Bookings GROUP BY Hotel_ID,Cust_ID HAVING COUNT(Cust_ID)>1) AS r2

) AS r1



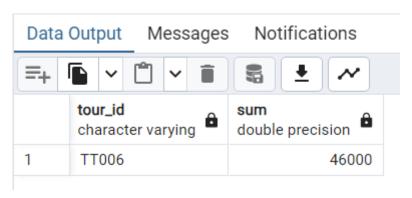
7. The customer wants to know the minimum package according to Tour and Travel.

SELECT L.DEST_NAME,
L.TOUR_ID,
MIN(AMOUNT)AS AMT
FROM PACKAGES AS L
GROUP BY L.DEST_NAME,
L.TOUR_ID
ORDER BY AMT
LIMIT 1



8. Customer named Seema Goenka wants to check how much she has paid to TT006.

SELECT TOUR_ID,
SUM((ADULTS * CONSULTANT_FEE) + (CHILDREN * CONSULTANT_FEE))
FROM
(SELECT TOUR_ID,
ADULTS,
CHILDREN,
DEST_NAME
FROM TOURIST AS T1
JOIN CUSTOMER AS C1 ON C1.CUSTOMER_ID = T1.CUST_ID
WHERE C1.CUSTOMERNAME = 'Seema Goenka') AS R1
NATURAL JOIN PRICING_CONDITIONS AS R2
GROUP BY TOUR_ID



9. Give the Tours and Travels who provide both consultancy and packages at the same destination.

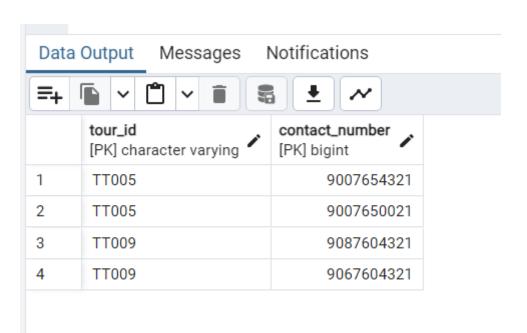
SELECT Tour_ID, Dest_Name FROM(
 SELECT Tour_ID, Dest_Name FROM Pricing_Conditions
 INTERSECT
 SELECT Tour_ID, Dest_Name FROM Packages
) AS r1

Data Output Messages Notifications

Dutu	Data Output Messages Notifications						
=+		■ • ~					
	tour_id character varying	dest_name character varying					
1	TT006	Gir National Park					
2	TT009	Saputara					
3	TT002	Gir National Park					
4	TT007	Dwarkadhish Temple					
5	TT005	Nagoa Beach					
6	TT001	Dwarkadhish Temple					
7	TT005	Saputara					
8	TT003	SOU					
9	TT008	Pavagadh					
10	TT006	Madhavpur Beach					
11	TT009	Runn of Kutch					
12	TT005	Runn of Kutch					
13	TT001	Ambaji mata Temple					
14	TT007	Polo Forest					

10. The customer wants to fetch the contact details of a tour and travel company which provides service at Saputara.

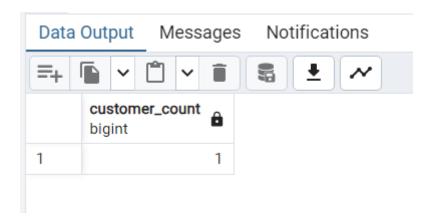
SELECT R1.*
FROM TOUR_CONTACT_DETAILS AS R1
JOIN PRICING_CONDITIONS AS P1 ON R1.TOUR_ID = P1.TOUR_ID
WHERE P1.DEST_NAME = 'Saputara'



HOTEL:

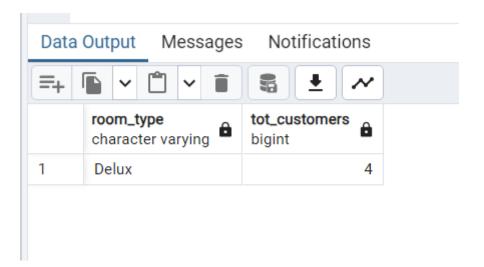
1. Return the number of customers who have given more than 3 stars to Hotel H005.

SELECT COUNT(CustId) AS CustomerCount FROM Rating_Hotel WHERE Stars > 3 AND Hotel_Id = 'H005';



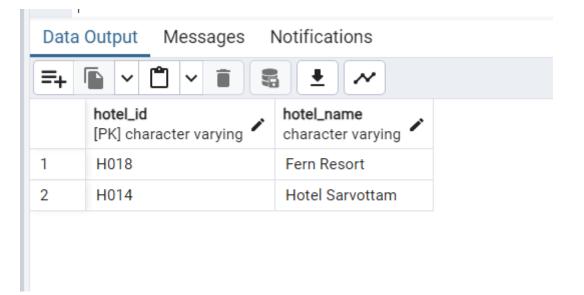
2. Which is the most preferred room type by customers in Hotel H002.

SELECT Room_Type, COUNT(Room_Type) AS Tot_Customers FROM Bookings
WHERE Hotel_Id = 'H002'
GROUP BY Bookings.Room_Type
ORDER BY Tot_Customers DESC
LIMIT 1;



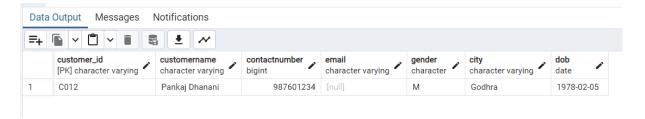
3. Give the Hotel_ID and Hotel_Name where there is no booking.

```
SELECT Hotel_ID, Hotel_Name FROM(
    Hotels
    NATURAL JOIN(
    SELECT Hotel_ID FROM Hotels
    EXCEPT
    SELECT DISTINCT Hotel_ID FROM Bookings
    ) AS r1
) AS r2
```



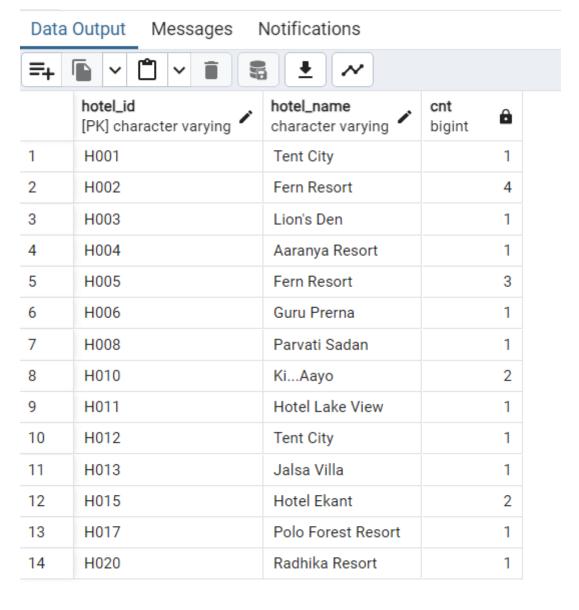
4. Give the details of customers who will check-in on 05/03/2024 in H016.

SELECT r1.* FROM(
Customer NATURAL JOIN
(SELECT Cust_ID AS Customer_ID FROM Bookings WHERE Hotel_ID = 'H016' AND StartDate = '2024-03-05') AS r2
) AS r1



5. Return the number of bookings done by tour companies for each hotel.

SELECT Hotel_ID, Hotel_Name, cnt FROM(
Hotels NATURAL JOIN
(SELECT Hotel_ID, COUNT(Tour_ID) AS cnt FROM Bookings GROUP BY Hotel_ID) AS r2
) AS r1 WHERE cnt <> 0



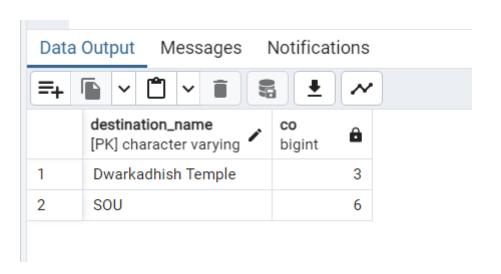
6. List the number of bookings at the Fern Resort for each Destination.

SELECT d.Destination_name,count(Cust_ID) AS co

FROM((SELECT hotel_id,Cust_ID FROM Bookings NATURAL JOIN Hotels WHERE Hotel_name = 'Fern Resort')

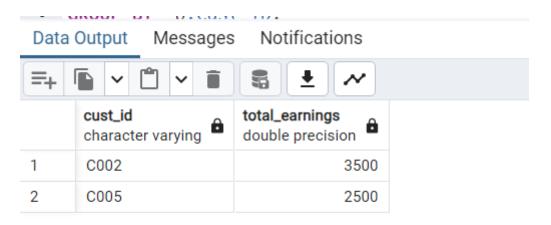
AS r1 NATURAL JOIN Available_Hotels) AS r2 JOIN Destination AS d ON d.Destination_name = r2.Dest_Name

group BY d.Destination_name



7. How much has H017 earned in the month of February from each customer?

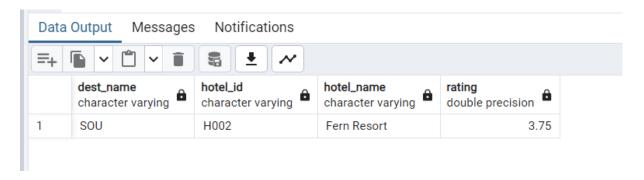
```
SELECT b.Cust_ID, SUM(r.Price) AS Total_Earnings
FROM Bookings b
JOIN Room_Type r ON b.Hotel_ID = r.Hotel_ID AND b.Room_Type = r.Room_Type
WHERE EXTRACT(MONTH FROM b.StartDate) = 2
AND b.Hotel_ID = 'H017'
GROUP BY b.Cust ID;
```



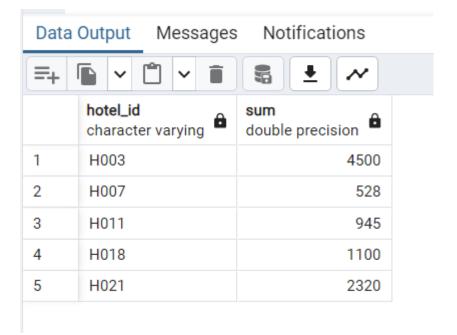
8. At which destination does Fern Resort have the maximum rating?

SELECT Dest_Name, Hotel_ID, Hotel_Name, Rating FROM(
(SELECT Hotel_ID, Hotel_Name, Rating FROM Hotels WHERE Hotel_Name = 'Fern Resort')
AS r2

NATURAL JOIN Available_Hotels
) AS r1 ORDER BY Rating DESC LIMIT 1



9. List the profit for all Hotels from cancellations.



10. Fern Resorts wants to get the details of a customer who has booked their hotel at all three destinations.



Tour and Travel

1. Which customers prefer Tours and Travel as a means of booking rather than direct booking?

SELECT DISTINCT c.* FROM Customer AS c JOIN Bookings AS b ON c.Customer_ID = b.Cust_ID WHERE b.Tour_id IS NOT NULL;

	customer_id [PK] character varying	customername character varying	contactnumber bigint	email character varying	gender character	city character varying	dob date
1	C002	Jancy John	9876543210	[null]	F	Surat	1992-07-14
2	C006	Seema Goenka	9567890123	seema@gmail.com	F	Jamnagar	1983-09-17
3	C010	Isha Dave	9901777567	[null]	F	Junagadh	1993-07-22
4	C014	Nishil Parmar	98909872435	nishil@gmail.com	М	Surat	2004-11-19
5	C009	Nitin Joshi	9890123456	nitinj@gmail.com	М	Morbi	1986-12-19
6	C008	Priya Oberoy	9789012345	priya@gmail.com	F	Nadiad	1995-04-08
7	C003	Raj Patel	9234567890	rajpatel@gmail.com	М	Vadodara	1988-03-12
8	C015	Isha Patel	9929987654	[null]	F	Junagadh	2001-07-26
9	C011	Sonia Trivedi	9567890123	sonia@gmail.com	F	Jamnagar	1980-09-15

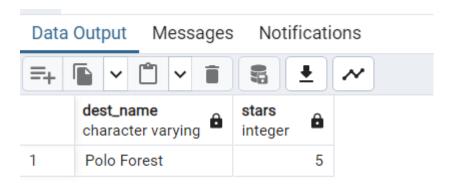
2. Which other tour and travel companies provide services at Dwarkadhish Temple other than TT007 and what are their pricing conditions.

SELECT DISTINCT P.TOUR_ID,
P.DEST_NAME,
PC.CONSULTANT_FEE,
PC.REFUND_PERCENT
FROM PACKAGES AS P
NATURAL JOIN PRICING_CONDITIONS AS PC
WHERE P.DEST_NAME = 'Dwarkadhish Temple'
AND P.TOUR_ID <> 'TT007';



3. Give the Destination where TT001 gets maximum rating from the customers.

SELECT T.DEST_NAME,
R.STARS
FROM RATING_TANDT AS R
NATURAL JOIN TOURIST AS T
WHERE T.TOUR_ID = 'TT001'
GROUP BY T.DEST_NAME,
R.STARS
ORDER BY R.STARS DESC
LIMIT 1;



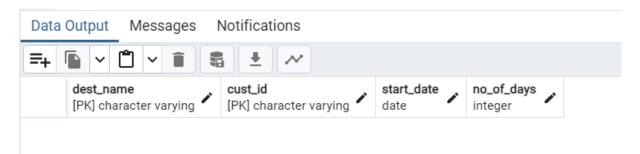
4. TT005 wants the contact details of the customers who cancelled their booking in February.

SELECT C2.CUST_ID,
C1.CONTACTNUMBER,
C2.CANCELLATIONDATE
FROM CUSTOMER AS C1
JOIN CANCELLATIONS AS C2 ON C1.CUSTOMER_ID = C2.CUST_ID
WHERE C2.TOUR_ID = 'TT005'
AND EXTRACT(MONTH FROM C2.CANCELLATIONDATE) = 2;

	cust_id character varying	contactnumber bigint	cancellationdate date
1	C015	9929987654	2024-02-16
2	C015	9929987654	2024-02-24

5. TT008 wants to know about the start date, number of days, and number of people going to SOU for customer C008.

SELECT V.DEST_NAME,
 V.CUST_ID,
 V.START_DATE,
 V.NO_OF_DAYS
FROM VISITED AS V
JOIN TOURIST AS T ON V.DEST_NAME = T.DEST_NAME
WHERE T.TOUR_ID = 'TT008'
 AND V.CUST_ID = 'C008'
 AND V.DEST_NAME = 'SOU';



6. TT002 wants to know about the room availability in Lion's Den in Gir National Park on 02/02/2024.

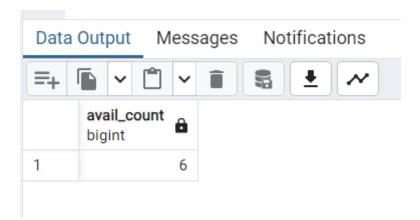
SELECT COUNT(Room_No) FROM(

SELECT Hotel_ID, Room_Type, Room_No FROM Room_Number NATURAL JOIN (SELECT Hotel_ID FROM Hotels WHERE Hotel_Name = 'Lion''s Den') AS r1

EXCEPT

SELECT Hotel_ID, Room_Type, Room_No FROM Bookings NATURAL JOIN (SELECT Hotel_ID FROM Hotels WHERE Hotel_Name = 'Lion''s Den') AS r2 WHERE StartDate='2024-02-02'

) AS r3



7. How many customers have booked hotels by TT004 in the month of January? Give their details.

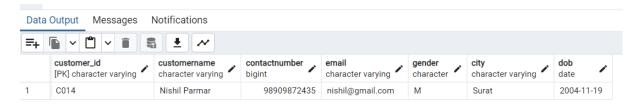
SELECT DISTINCT c.Customer_ID, c.CustomerName, c.ContactNumber, c.Email, c.Gender, c.City, c.DOB

FROM Customer c

JOIN Bookings b ON c.Customer_ID = b.Cust_ID

WHERE b.Tour_ID = 'TT004'

AND EXTRACT(MONTH FROM b.StartDate) = 1;



8. What is the total consultant fee earned by TT003 in the month of February.

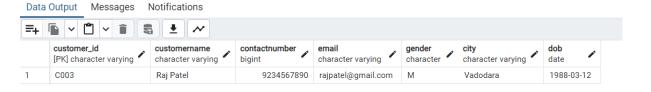
```
SUM(pc.Cosultant_Fee) AS total_Consultancy_fees
FROM
  Tourist t
JOIN
  Packages p ON t.Tour ID = p.Tour ID
JOIN
  Pricing_conditions pc ON t.Tour_ID = pc.Tour_ID
WHERE
  t.Tour_ID = 'TT003'
  AND EXTRACT(MONTH FROM t.Start_Date) = 2;
                             Notifications
 Data Output
                Messages
 ≡₊
       total_consultancy_fees
        double precision
 1
                         4000
```

SELECT

9. Thomas Cook Company wants to know the details of the customer who has provided the minimum rating.

```
SELECT C1.*
FROM

(SELECT R1.CUST_ID,
MIN(STARS) AS STAR_CUST
FROM
(SELECT*
FROM TOURS_AND_TRAVELS AS T1
JOIN RATING_TANDT AS T2 ON T1.TOUR_ID = T2.TOUR_ID
WHERE COMPANY_NAME = 'Compass') AS R1
GROUP BY R1.CUST_ID
ORDER BY STAR_CUST
LIMIT 1) AS L1
JOIN CUSTOMER AS C1 ON L1.CUST_ID = C1.CUSTOMER_ID
```



10. TT009 wants to check which other TT provides packages and at which rates in Runn of Kutch.

SELECT DISTINCT p.Tour_ID, t.Company_name, p.Days, p.Amount FROM Packages AS p NATURAL JOIN Tours_and_Travels AS t WHERE p.Dest_Name='Runn of Kutch' AND p.Tour_ID!='TT009'

Data	Output Messages	Notifications		
=+				
	tour_id character varying	company_name character varying	days integer	amount double precision
1	TT004	Skyworld	5	10500
2	TT004	Skyworld	6	12000
3	TT005	FlyHigh	3	7000