



IT-214
Database Management System
Group -- T102

Project Title:
“TOURISM GUIDE DATABASE”

Queries

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UNLOGGED USER

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

```
SELECT * FROM Sightseeing_Places WHERE Dest_Name='Polo Forest'
```

Data Output Messages Notifications					
	dest_name [PK] character varying	sight_name [PK] character varying	timing character varying	ticketprice double precision	dist_from_dest 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.

```
SELECT Destination_Name, Hotel_ID, Hotel_Name FROM(
  Hotels NATURAL JOIN(
    SELECT Destination_Name, Hotel_ID FROM (
      (SELECT Destination_Name FROM Destination WHERE Type_of_Place = 'Beach')
      AS r1
    JOIN
      Available_HOTELS AS r2
    ON r1.Destination_Name = r2. Dest_Name)
  ) AS r3
)
```

Data Output Messages Notifications			
	destination_name character varying	hotel_id character varying	hotel_name character varying
1	Madhavpur Beach	H018	Fern Resort
2	Madhavpur Beach	H019	Hotel Kuber
3	Nagoa Beach	H020	Radhika Resort
4	Nagoa Beach	H021	Grand Highness

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
```

Data Output					
	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.

```
SELECT Dest_Name, Hotel_ID, Hotel_Name, Dist_FROM_Dest FROM(
  Hotels NATURAL
  JOIN(
    (SELECT Dest_name, Hotel_ID, Dist_FROM_dest FROM
      Available_Hotels
      NATURAL JOIN
      Hotels) AS r1
    NATURAL JOIN
    ( SELECT Dest_name, min(Dist_FROM_dest) AS Dist_FROM_dest FROM
      Available_Hotels
      NATURAL JOIN
      Hotels GROUP BY Dest_name )AS r2
  )AS r3
)
```

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	Nagoo 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?

```
SELECT Hotel_ID, Hotel_Name, Room_Type FROM(  
  Hotels NATURAL JOIN(  
    (SELECT Hotel_ID FROM Available_Hotels WHERE Dest_Name = 'SOU') AS r1  
    NATURAL JOIN  
    (SELECT Hotel_ID, Room_Type FROM Room_Type WHERE Price>=1000 AND  
      Price<=3500) AS r2  
  )  
)
```

Data Output				Messages	Notifications
<div><div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div><div><div></div></div></div></div>					
	hotel_id character varying	hotel_name character varying	room_type character varying		
1	H001	Tent City	Regular		

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;

```

	dest_name character varying	hotel_name character varying	hotel_id character varying	contact_num bigint	room_type character varying	days integer	max_refund_percentage double precision
1	Dwarkadhish Temple	Fern Resort	H005	8789025372	Regular	5	95
2	Saputara	Hotel Lake View	H011	8751234165	Delux	1	91
3	SOU	Fern Resort	H002	8800991234	Delux	5	82
4	SOU	Fern Resort	H002	9876123009	Delux	5	82
5	Madhavpur Beach	Hotel Kuber	H019	8780987612	Regular	1	90
6	Runn of Kutch	Ki...Aayo	H010	9012763908	Delux	3	95
7	Runn of Kutch	Ki...Aayo	H010	9981233212	Delux	3	95
8	Pavagadh	Hotel Sarvottam	H014	8076245370	Regular	2	90
9	Nagoa Beach	Grand Highness	H021	8766781235	Regular	2	89
10	Polo Forest	Polo Retreat Resort	H016	8800011762	Delux	4	81
11	Ambaji mata Temple	Savita Govind	H007	9098906512	Regular	2	88
12	Gir National Park	Aaranya Resort	H004	9090877254	Regular	5	87

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');
```

Data Output Messages Notifications					
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div>					
	tour_id [PK] character varying	company_name character varying	website character varying	email_id character varying	rating double precision
1	TT001	Bazinga	www.bazinga.com	bazinga@gamil.com	4
2	TT007	Travel Talk	www.traveltalk.com	traveltalk@gmail.com	2.5

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;
```

Data Output Messages Notifications		
<div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div></div>		
	dest_name character varying	cnt bigint
1	SOU	6

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;
```

Data Output

Messages

Notifications

dest_name

character varying

cust_count

bigint

1

Dwarkadhish Temple

4

2

Saputara

5

3

SOU

6

4

Madhavpur Beach

3

5

Runn of Kutch

4

6

Nagoa Beach

4

7

Ambaji mata Temple

3

8

Gir National Park

4

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;
```

Data Output Messages Notifications					
	dest_name [PK] character varying	sight_name [PK] character varying	timing character varying	ticketprice double precision	dist_from_dest double precision
1	Nagoa Beach	Diu Fort	10:00AM to 6:00PM	70	42
2	Nagoa Beach	St. Paul Church	8:00AM to 6:00PM	[null]	8
3	Nagoa Beach	Diu Museum	11:00AM to 4:00PM	300	4
4	Nagoa Beach	Naida Caves	[null]	80	19
5	Nagoa Beach	Ghoghala Beach	[null]	[null]	28
6	Nagoa Beach	Chapal of Lady Rosary	8:00AM to 6:00PM	[null]	9

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 TourId, MIN(ConsultantFee) AS Fee
        FROM Pricing_Conditions
        WHERE DestName = 'Nagoa Beach'
        GROUP BY TourId
        ORDER BY Fee
        LIMIT 1
    ) AS R2
);
```

Data Output Messages Notifications					
	tour_id [PK] character varying	company_name character varying	website character varying	email_id character varying	rating double precision
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;
```

Data Output			Messages	Notifications
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>				
	dest_name	visits		
	character varying	bigint		
1	Nagoa Beach	4		

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
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>				
	dest_name	expenditure		
	character varying	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')
) as r1
```

Data Output		Mess
	count bigint	
1	0	

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 q1
) AS R2
```

	returnamount double precision	
1	840	

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
<div><div><div>≡</div><div>+</div><div>📄</div><div>▼</div><div>📋</div><div>▼</div><div>🗑</div></div></div>		
total_expenditure		🔒
double precision		
1	12500	












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
```

	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
```

Data Output		Messages	Notifications					
								
	cust_id character varying 	sum double precision 						
1	C010	15450						

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
```

Data Output Messages Notifications							
	customer_id [PK] character varying	customername character varying	contactnumber bigint	email character varying	gender character	city character varying	dob date
1	C010	Isha Dave	9901777567	[null]	F	Junagadh	1993-07-22
2	C008	Priya Oberoy	9789012345	priya@gmail.com	F	Nadiad	1995-04-08

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
```

Data Output Messages Notifications			
	dest_name character varying	tour_id character varying	amt double precision
1	Madhavpur Beach	TT006	400


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
```


Data Output


Messages


Notifications

























	<div><div>tour_id</div><div>character varying</div><div></div></div>	<div><div>sum</div><div>double precision</div><div></div></div>
1	TT006	46000

```
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

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








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	<div>tour_id</div> <div>character varying</div> <div>🔒</div>	<div>dest_name</div> <div>character varying</div> <div>🔒</div>
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


```
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'
```

Data Output			Messages	Notifications
				
				
	tour_id [PK] character varying 	contact_number [PK] bigint 		
1	TT005	9007654321		
2	TT005	9007650021		
3	TT009	9087604321		
4	TT009	9067604321		

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';
```












Data Output		Messages	Notifications
	customer_count bigint		
1	1		

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;
```

Data Output		Messages	Notifications
	room_type character varying		
	tot_customers bigint		
1	Delux		4

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

Data Output			Messages	Notifications				
								
	hotel_id [PK] character varying 		hotel_name character varying 					
1	H018		Fern Resort					
2	H014		Hotel Sarvottam					

```
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
```

Data Output		Messages	Notifications				
<div> <div>≡</div> <div>📄</div> <div>▼</div> <div>📋</div> <div>▼</div> <div>🗑️</div> <div>🗄️</div> <div>⬇️</div> <div>📈</div> </div>							
	customer_id [PK] character varying	customername character varying	contactnumber bigint	email character varying	gender character	city character varying	dob date
1	C012	Pankaj Dhanani	987601234	[null]	M	Godhra	1978-02-05

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
```

Data Output

Messages

Notifications

	hotel_id [PK] character varying	hotel_name character varying	cnt bigint
1	H001	Tent City	1
2	H002	Fern Resort	4
3	H003	Lion's Den	1
4	H004	Aaranya Resort	1
5	H005	Fern Resort	3
6	H006	Guru Prerna	1
7	H008	Parvati Sadan	1
8	H010	Ki...Aayo	2
9	H011	Hotel Lake View	1
10	H012	Tent City	1
11	H013	Jalsa Villa	1
12	H015	Hotel Ekant	2
13	H017	Polo Forest Resort	1
14	H020	Radhika Resort	1

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
```

Data Output			Messages	Notifications
	destination_name [PK] character varying	co bigint		
1	Dwarkadhish Temple	3		
2	SOU	6		














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;
```

Data Output			Messages	Notifications
	cust_id character varying	total_earnings double precision		
1	C002	3500		
2	C005	2500		












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
```

Data Output Messages Notifications				
        				
	dest_name character varying 	hotel_id character varying 	hotel_name character varying 	rating double precision 
1	SOU	H002	Fern Resort	3.75

9. List the profit for all Hotels from cancellations.

```
SELECT Hotel_ID, SUM(RoomPrice*BookedDays*(1-(Amnt_Per/100)))FROM (
    ((SELECT Hotel_ID, Room_Type, EndDate-StartDate AS BookedDays,
    StartDate-CancellationDate AS Days FROM Cancellations) AS r1
    NATURAL JOIN
    (SELECT Hotel_ID, Room_Type, Price AS RoomPrice FROM Room_Type) AS r2
) AS r3
NATURAL JOIN Refund_Policy
) AS r6 GROUP BY Hotel_ID
```

Data Output Messages Notifications		
        		
	hotel_id character varying 	sum double precision 
1	H003	4500
2	H007	528
3	H011	945
4	H018	1100
5	H021	2320

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	M	Surat	2004-11-19
5	C009	Nitin Joshi	9890123456	nitinj@gmail.com	M	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	M	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';
```

Data Output Messages Notifications				
				
				
	tour_id character varying	dest_name character varying	consultant_fee double precision	refund_percent double precision
1	TT001	Dwarkadhish Temple	5000	20

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 ;
```

Data Output			Messages	Notifications
	dest_name character varying	stars integer		
1	Polo Forest	5		

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';
```

Data Output				Messages	Notifications
<div><div><div>≡</div><div>📄</div><div>▼</div><div>📋</div><div>▼</div><div>🗑</div><div>🗄</div><div>⬇</div><div>📈</div></div></div>					
	dest_name	cust_id	start_date	no_of_days	
	[PK] character varying	[PK] character varying	date	integer	

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
```

Data Output			Messages	Notifications
<div><div><div>≡</div><div>📄</div><div>▼</div><div>📋</div><div>▼</div><div>🗑</div><div>🗄</div><div>⬇</div><div>📈</div></div></div>				
	avail_count			
	bigint	🔒		
1		6		

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;
```

Data Output Messages Notifications							
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>							
	customer_id [PK] character varying	customername character varying	contactnumber bigint	email character varying	gender character	city character varying	dob date
1	C014	Nishil Parmar	98909872435	nishil@gmail.com	M	Surat	2004-11-19

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

```
SELECT
    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;
```

Data Output Messages Notifications	
<div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div>	
	total_consultancy_fees double precision
1	4000

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
```

Data Output

Messages

Notifications

	customer_id [PK] character varying	customername character varying	contactnumber bigint	email character varying	gender character	city character varying	dob date
1	C003	Raj Patel	9234567890	rajpatel@gmail.com	M	Vadodara	1988-03-12

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