SQL QUERIES

CUSTOMERS :-

1. **Retrieve customers who have booked accommodations in destinations where the best month to visit is in the summer (June, July, August) and have left a review with a rating above 4**

```
CREATE VIEW HighRatedSummerBookings AS
SELECT c.Fname, c.Lname, r.Rating, d.Dname
FROM Customer c
JOIN Booking b ON c.CustId = b.CustID
JOIN Destination d ON b.DID = d.DID
JOIN Review r ON c.CustId = r.CustID AND b.BookingID =
r.BookingID
WHERE EXTRACT(MONTH FROM b.Checkin_Date) IN (6, 7, 8)
AND r.Rating > 4;

SELECT * FROM HighRatedSummerBookings;
```

2. **List of all bookings of a particular customer having customerID 19 made in the year 2024.**

```
select BookingID, Total_Cost, Booking_date
from Booking
where CustID = 19
and Booking_date between '2024-01-01' and '2024-12-31';
```

3. **Retrieve destination name and country where the avg rating of activities is above 4.5**

```
SELECT d.dname,d.country
FROM Activities as a
JOIN Destination as d ON a.DID = d.DID
JOIN Booking as b ON d.DID = b.DID
JOIN Review as r ON r.bookingId=b.bookingId
GROUP BY d.DID
```

```
HAVING AVG(r.Rating) > 4.5;
```

4. **Retrieve refund status for cancelled bookings**

```
SELECT b.BookingID, r.Refund_Status
FROM Booking b
JOIN Refund r ON b.BookingID = r.BookingID
WHERE b.Booking_Status = 'Cancelled';
```

5. **Give list of accommodations at a specific location**

```
select a.Aname, a.Atype, d.dname, a.Price_per_night, a.Availability,
a.Docs_required
from Accommodation as a natural join
Destination as d
where d.Country = 'France'
order by a.Price_per_night desc;
```

ADMIN :-

1. **Retrieve all admins who are responsible for managing a specific destination (e.g., New York)**

```
SELECT a.Fname, a.Lname, ac.Contact, d.aname, d.atype,
de.dname
FROM Admin a
JOIN AdminContact ac ON a.AdminID = ac.AdminID
JOIN Accommodation d ON a.AdminID = d.AdminID
JOIN Destination de ON  d.DID = de.DID
WHERE d.DID = 205 LIMIT 2;
```

2. **List of all Customers and their Booking Date who opted for UPI mode of payment in the booking process.**

```
select p.CustId, b.Booking_Date from
Payment as p join Booking as b
on p.BookingId = b.BookingId
```

```
where p.method = 'UPI';
```

3. **Provide list of TransportationIDs booked by customers owned by Admin having ID = 1011 in month of may 2024.**

```
select Transportation_ID, Trans_Name, Trans_Type, Booking_date,
b.Checkin_Date
from Booking as b join Transportation as tr
on b.AdminID = tr.AdminID
where b.AdminID = 1011
and Checkin_Date between '2024-05-01' and '2024-05-31';
```

4. **Retrieve income of an admin for year 2024**

```
select a.AdminId, a.Fname, a.Lname, sum(total_cost) as income
from Booking as b natural join Admin as a
where b.AdminId = '1019' and
b.Booking_Date between '2024-01-01' and '2024-12-31'
group by a.AdminId;
```

5. **Retrieve emergency contact details of a particular customer in case of an emergency**

```
select c.fname, c.lname, e.* from
Customer as c natural join Emergency_Contact as e
where c.CustId = '10';
```

6. **Identify top 3 destinations where the number of bookings exceeds the average number of bookings**

```
SELECT D.DID, D.Dname, COUNT(B.BookingID) AS Total_Bookings
FROM Destination D
LEFT JOIN Booking B ON D.DID = B.DID
GROUP BY D.DID, D.Dname
HAVING COUNT(B.BookingID) > (SELECT AVG(Booking_Count)
FROM
(SELECT COUNT(BookingID) AS Booking_Count FROM Booking
GROUP BY DID) AS AvgBookings) Limit 3;
```

NON-LOGGED IN USERS :-

1. **Give list of Activities available at Goa in the increasing order of price.**

```
select a.* from Activities as a
natural join Destination as d
where d.Dname = 'Goa'
order by Price;
```

2. **Give list of transportations available at Goa having capacity of 2 persons in the ascending order of price.**

```
select t.Transportation_ID, t.Trans_Name, t.Trans_Type, t.Price,
t.Capacity
from Transportation as t natural join Destination as d
where d.Dname = 'Goa'
and t.Capacity = 2
order by t.Price;
```

3. **Retrieve the popular attractions for a given Country**

```
SELECT pa.Popular_Attractions, d.DID, d.Dname
FROM Destination d
JOIN Popular_Attractions pa ON d.DID = pa.DID
GROUP BY d.DID, d.Dname, pa.Popular_Attractions, d.Country
HAVING d.Country = 'India';
```

4. **List top 5 destinations which are popular among the customers which fall in the age group of 18-30**

```
select distinct d.DID, DName, Country from
Destination as d natural join Booking as b
natural join Customer as c
where DOB between '1994-01-01' and '2006-01-01'
limit 5;
```

5. **Retrieve Events and fests at a particular Country between given date interval**

```
select e.*, d.Dname from EventsAndFests as e
join Destination as d
on e.DID = d.DID
where d.Country = 'India'
and e.event_date between '2024-04-01' and '2024-07-31';
```