

--SQL Queries

SET search_path TO Tourism_Management_System;

--1) Retrieve the packages within a particular price range

SELECT * FROM package WHERE amount >= 15000 and amount <= 20000;

--2) Show the list of top 5 packages based on the number of users who selected it.

SELECT COUNT (pack.packageid), pack.title, pack.duration, pack.no_of_people, pack.amount
FROM package AS pack

JOIN (SELECT * FROM Booking_for_package) AS bfp ON (bfp.PackageID = pack.PackageID)

GROUP BY pack.title, pack.duration, pack.amount, pack.no_of_people

ORDER BY COUNT (pack.packageID) DESC;

--3) View list of all the tourist spots at a particular location.

SELECT ts."Name", ts.season, ts.ratings,

CONCAT (ts.address,', ',l.city,', ',l.state, ' - ',ts.pincod) AS "Address"

FROM tourist_spots AS ts JOIN location AS l ON ts.pincod = l.pincod

where l.city = 'Kullu';

--4) View the tourist spots included in "abc" package.

SELECT p.title, p.duration, p.no_of_people, p.amount,

ts."Name", ts.season, ts.ratings,

CONCAT (ts.address,', ',l.city,', ',l.state, ' - ',ts.pincod) AS "Address"

FROM tourist_spots AS ts

JOIN package_includes_spots pt ON(pt.spotid = ts.spotid)

JOIN package AS p ON (p.packageid = pt.packageid)

JOIN location AS l ON ts.pincod = l.pincod

where p.title = 'Manali Tour';

--5) Retrieve the tourist spot with highest user ratings

```
SELECT "Name", season, ts2.ratings,  
CONCAT (ts1.address,', ', l.city,', ', l.state, ' - ', ts1.pincode) AS "Address"  
FROM tourist_spots AS ts1  
JOIN (SELECT MAX (ratings) AS ratings FROM tourist_spots) AS ts2  
ON (ts1.ratings = ts2.ratings)  
JOIN Location as l ON (ts1.pincode = l.pincode);
```

--6) View all the restaurants that serve “only veg” food.

```
SELECT r."Name", r.phone, r.foodType, r.ratings,  
CONCAT (r.address,', ', l.city, ', ', l.state, ' - ', r.pincode) AS "Address"  
FROM restaurant AS r JOIN location AS l ON r.pincode = l.pincode  
where r.foodType = 'VEG';
```

--7) Retrieve list of all the restaurants at “abc” location.

```
SELECT r."Name", r.phone, r.foodType, r.ratings,  
CONCAT (r.address,', ', l.city, ', ', l.state, ' - ', r.pincode) AS "Address"  
FROM restaurant AS r JOIN location AS l ON r.pincode = l.pincode  
where l.city = 'Ahmedabad';
```

--8) View all the restaurants that have “Chinese” cuisine included in their menu.

```
SELECT r."Name", r.phone, r.foodType, r.ratings, rc.cuisines,  
CONCAT (r.address,', ', l.city, ', ', l.state, ' - ', r.pincode) AS "Address"  
FROM restaurant AS r JOIN location AS l ON r.pincode = l.pincode  
JOIN restaurant_cuisines AS rc ON r.rid = rc.rid WHERE rc.cuisines = 'Chinese';
```

--9) Retrieve all the hotels that are situated at location “xyz”.

```
SELECT h."Name", h.phone, h.foodType, h.ratings,
```

```
CONCAT (h.address,', ', l.city,', ', l.state,' - ', h.pincode) AS "Address"
FROM hotel AS h JOIN location AS l ON h.pincode = l.pincode WHERE l.city = 'Ahmedabad';
```

--10) Retrieve list of hotels that are providing “xyz” services.

```
SELECT h."Name", h.phone, h.foodType, h.ratings,hs.services,
CONCAT (h.address,', ', l.city,', ', l.state,' - ', h.pincode) AS "Address"
FROM hotel AS h JOIN location AS l ON h.pincode = l.pincode
JOIN hotel_services AS hs ON h.hotelid = hs.hotelid
where hs.services = 'Gym';
```

--11) Retrieve the hotel with highest user ratings

```
SELECT h."Name", h.phone, h.foodType, h.ratings,
CONCAT (h.address,', ', l.city,', ', l.state,' - ', h.pincode) AS "Address"
FROM hotel AS h JOIN location AS l ON h.pincode = l.pincode
where h.ratings IN (SELECT max(ratings) from hotel);
```

--12) Retrieve list of hotels sorted according to their user ratings.

```
SELECT h."Name", h.phone, h.foodType, h.ratings,
CONCAT (h.address,', ', l.city,', ', l.state,' - ', h.pincode) AS "Address"
FROM hotel AS h JOIN location AS l ON h.pincode = l.pincode
ORDER BY h.ratings DESC;
```

--13) View list of hotel rooms starting from the Lowest Price to Highest Price.

```
SELECT h."Name" As "Hotel_Name", r.room_no AS "Room_Number", r."Type" AS
"Room_Type",
r.beds AS "No_of_Beds", r.capacity AS "Capacity", r.rate AS "Price", r.status As
"Current_Status"
FROM hotel AS h JOIN room AS r ON h.hotelid = r.hotelid
ORDER BY r.rate,h."Name", r.room_no;
```

--14) Retrieve list of hotel rooms that have “Cable TV” facility at a particular location.

```
SELECT h."Name" As "Hotel_Name",r.room_no AS "Room_Number", r."Type" AS  
"Room_Type",  
  
r.beds AS "No_of_Beds", r.capacity AS "Capacity", r.rate AS "Price", r.status As  
"Current_Status", rf.facility, l.city  
  
FROM hotel AS h JOIN location AS l ON h.pincode = l.pincode  
  
JOIN room AS r ON h.hotelid = r.hotelid  
  
JOIN room_facilities AS rf ON (h.hotelid=rf.hotelid and r.room_no=rf.roomno)  
  
WHERE rf.facility='Cable TV' and l.city = 'Amritsar'  
  
ORDER BY h."Name", r.room_no;
```

--15) Retrieve all the packages associated with a particular guide. (admin)

```
SELECT CONCAT (g.fname,' ', g.lname) AS "Guide_Name",  
  
p.title AS "Package_Name", p.duration as "Duration (In Days)",  
  
p.no_of_people AS "No_Of_People", p.amount AS "Amount"  
  
FROM guide AS g JOIN package_includes_guides AS pg ON (g.guideid=pg.guideid)  
  
JOIN package AS p ON (pg.packageid=p.packageid)  
  
WHERE g.fname='Sachin' and g.lname='Bhide';
```

--16) Retrieve the list of all package associated with a particular hotel.

```
SELECT h."Name" AS "Hotel_Name",  
  
p.title AS "Package_Name", p.duration as "Duration (In Days)",  
  
p.no_of_people AS "No_Of_People", p.amount AS "Amount"  
  
FROM hotel AS h JOIN package_includes_hotels AS ph ON (h.hotelid=ph.hotelid)  
  
JOIN package AS p ON (ph.packageid=p.packageid)  
  
WHERE h."Name"='Hotel Thomas Villa';
```

--17) Retrieve all the packages which include “xyz” spots.

```
SELECT t."Name" AS "Spot_Name",  
  
p.title AS "Package_Name", p.duration as "Duration (In Days)",
```

```

p.no_of_people AS "No_Of_People", p.amount AS "Amount"
FROM tourist_spots AS t JOIN package_includes_spots AS ps ON (t.spotid=ps.spotid)
JOIN package AS p ON (ps.packageid=p.packageid)
WHERE t."Name"='Manali';

```

--18) Best tourist place to visit in “xyz” season.

```

SELECT ts."Name" AS "Spot_Name", ts.season AS "Season", ts.ratings AS "Ratings",
CONCAT (ts.address,', ',l.city,', ',l.state,' - ',ts.pincode) AS "Address"
FROM tourist_spots AS ts JOIN "location" AS l
ON ts.pincode=l.pincode
WHERE ts.season='Winter';

```

--19) Name and address of hotels which provides rooms between specific price range.

```

SELECT h."Name" As "Hotel_Name",r.room_no AS "Room_Number", r."Type" AS
"Room_Type",
r.beds AS "No_of_Beds", r.capacity AS "Capacity", r.rate AS "Price", r.status As
"Current_Status",
rf.facility, CONCAT(h.address,', ', l.city,', ', l.state,' - ', h.pincode) AS "Address"
FROM hotel AS h JOIN location AS l ON h.pincode = l.pincode
JOIN room AS r ON h.hotelid = r.hotelid
LEFT JOIN room_facilities AS rf ON (h.hotelid=rf.hotelid and r.room_no=rf.roomno)
WHERE r.rate between 1500 and 2000
ORDER BY r.rate, h."Name", r.room_no;

```

--20) Retrieve list of all the guides which are not associated with any active packages.

```

SELECT CONCAT (g.fname,' ', g.lname) AS "Guide_Name", g.email, g.phone, g.age, g.gender,
CONCAT (g.address,', ',l.city,', ',l.state,' - ',g.pincode) AS "Address"
FROM guide AS g JOIN "location" AS l ON (g.pincode=l.pincode)
WHERE g.guideid NOT IN
(SELECT guideid from package_includes_guides AS pg

```

JOIN (Select * from package where isActive='TRUE') AS p ON (pg.packageid=p.packageid));

--21) Which hotel have availability of room right now?

```
SELECT hl."Name", rooms ,hl.ratings, hl.address FROM hotel as hl
JOIN
(SELECT r.hotelid, COUNT(r.room_no) AS rooms FROM room AS r
JOIN hotel AS h
ON (r.hotelid = h.hotelid) GROUP BY r.hotelid) as x
ON (x.hotelid = hl.hotelid) WHERE rooms > 0 AND hl.isactive = true;
```

--22) Number of rooms available at a particular hotel right now.

```
SELECT COUNT (*) FROM room as r
JOIN
hotel AS h ON (r.hotelid = h.hotelid)
WHERE h."Name" = 'Ahdoos Hotel' AND r.status = 'AVAILABLE';
```

--23) Retrieve all the previous bookings of user. (both)

```
SELECT b.booking_date, bfc.no_of_co_passengers, b.tripstart_date, b.tripend_date,
b.amount, p.title AS package_name, hp."Name" as package_hotel, pih.RoomNo
package_roomno,h."Name" AS hotel_name, bfh.roomno FROM booking as b
LEFT JOIN
(SELECT COUNT(c.fname) AS no_of_co_passengers, c.bid FROM booking_copassenger c
GROUP BY c.bid) AS bfc ON (bfc.bid = b.bid)
FULL OUTER JOIN booking_for_package AS bfp ON (bfp.bid = b.bid)
FULL OUTER JOIN package AS p ON (bfp.packageid = p.packageid)
FULL OUTER JOIN booking_for_hotel AS bfh ON (bfh.bid = b.bid)
FULL OUTER JOIN hotel AS h ON (bfh.hotelid = h.hotelid)
FULL OUTER JOIN Package_Includes_Hotels AS pih ON (pih.packageid = p.packageid)
FULL OUTER JOIN hotel AS hp ON (hp.hotelid = pih.hotelid)
JOIN "User" AS u ON (b.userid = u.userid)
```

WHERE CONCAT (u.fname, ' ', u.lname) = 'Viral Gandhi';

--24) Retrieve the bookings between particular date of “xyz” user. (admin)

```
SELECT CONCAT(u.fname, ' ', u.lname), b.booking_date, bfc.no_copassengers,
b.tripstart_date, b.tripend_date,
b.amount, p.title AS package_name, hp."Name" as package_hotel, pih.RoomNo
package_roomno, h."Name" AS hotel_name, bfh.roomno
FROM booking as b
LEFT JOIN
(SELECT COUNT(c.fname) AS no_copassengers, c.bid FROM booking_copassenger c GROUP
BY c.bid) AS bfc ON (bfc.bid = b.bid)
FULL OUTER JOIN booking_for_package AS bfp ON (bfp.bid = b.bid)
FULL OUTER JOIN package AS p ON (bfp.packageid = p.packageid)
FULL OUTER JOIN booking_for_hotel AS bfh ON (bfh.bid = b.bid)
FULL OUTER JOIN hotel AS h ON (bfh.hotelid = h.hotelid)
FULL OUTER JOIN Package_Includes_Hotels AS pih ON (pih.packageid = p.packageid)
FULL OUTER JOIN hotel AS hp ON (hp.hotelid = pih.hotelid)
JOIN "User" AS u ON (b.userid = u.userid)
WHERE CONCAT(u.fname, ' ', u.lname) = 'Viral Gandhi'
AND b.booking_date < '2020-11-14' AND b.booking_date >= '2020-11-09';
```

--25) Retrieve all the bookings between particular date. (admin)

```
SELECT CONCAT(u.fname, ' ', u.lname), b.booking_date, bfc.no_copassengers,
b.tripstart_date, b.tripend_date,
b.amount, p.title AS package_name, hp."Name" as package_hotel, pih.RoomNo
package_roomno, h."Name" AS hotel_name, bfh.roomno
FROM booking as b
LEFT JOIN
(SELECT COUNT(c.fname) AS no_copassengers, c.bid FROM booking_copassenger c GROUP
BY c.bid) AS bfc ON (bfc.bid = b.bid)
FULL OUTER JOIN booking_for_package AS bfp ON (bfp.bid = b.bid)
```

```

FULL OUTER JOIN package AS p ON (bfp.packageid = p.packageid)
FULL OUTER JOIN booking_for_hotel AS bfh ON (bfh.bid = b.bid)
FULL OUTER JOIN hotel AS h ON (bfh.hotelid = h.hotelid)
FULL OUTER JOIN Package_Includes_Hotels AS pih ON (pih.packageid = p.packageid)
FULL OUTER JOIN hotel AS hp ON (hp.hotelid = pih.hotelid)
JOIN "User" AS u ON (b.userid = u.userid)
WHERE b.booking_date < '2020-11-14' AND b.booking_date >= '2020-11-09';

```

--26) Retrieve all the details of user of “xyz” hotel room. (admin)

```

SELECT CONCAT(u.fname, ' ', u.lname) AS user_name, u.phone, u.email, u.age,
b.booking_date FROM "User" as u
JOIN booking AS b ON (u.userid = b.userid)
JOIN booking_for_hotel AS bfh ON (b.bid = bfh.bid)
JOIN hotel AS h ON (bfh.hotelid = h.hotelid)
JOIN room AS r ON (r.hotelid = h.hotelid) WHERE h."Name" = 'Hotel Kashi'
AND r.room_no = 5;

```

--27) Retrieve all the user booking details of “xyz” hotel. (admin)

```

SELECT CONCAT(u.fname, ' ', u.lname) AS user_name, b.booking_date, bfh.roomno FROM
"User" as u
JOIN booking AS b ON (u.userid = b.userid)
JOIN booking_for_hotel AS bfh ON (b.bid = bfh.bid)
JOIN hotel AS h ON (bfh.hotelid = h.hotelid)
WHERE h."Name" = 'Hotel Kashi';

```

--28) Give details of co-passenger with “xyz” user with dates. (admin)

```

SELECT CONCAT (u.fname, ' ', u.lname) AS user_name, b.booking_date,
CONCAT(c.fname, ' ', c.lname) as copassenger, c.phone, c.gender, c.age
FROM "User" as u

```


JOIN booking AS b ON (u.userid = b.userid)

JOIN booking_copassenger AS bc ON (bc.bid = b.bid)

JOIN copassenger AS c ON (bc.userid = c.uid AND bc.fname = c.fname AND bc.lname = c.lname)

WHERE CONCAT(u.fname, ' ', u.lname) = 'Viral Gandhi';