

University of Asia Pacific

Department of Computer Science & Engineering

Course Title: Database Systems Lab

Course Code: CSE 212

Project:

Tourism & Travels

Submitted By:

1.Name: Md. Abidur Rahman Khan

ID : 21201191

2.Name: Azlina Arabi Hossain

ID : 21201192

3. Name: Afiah

ID : 21201193

4. Name: Mumtaheena Binte Ahmed

ID : 21201198

5.Name: Sadman Bin Khorshed Amio

ID : 21201201

Submitted To:

Molla Rashied Hussein

Assistant Professor

Department of CSE

University of Asia Pacific

Tourism & Travels

It is a digital platform offering centralized information on different destinations, accommodations, attractions and routes within certain packages. It enables efficient trip planning, online bookings, and user reviews, enhancing the travel experience for tourists while supporting businesses with valuable insights and marketing opportunities.

Entity Set	Relational Set
 Attraction Hotel Transportation Package Review User 	 Booking Package_hotel_service Package_transportation User_hotel

Attraction Entity Attributes:

- attraction ID
- attraction name
- attraction description
- ticket price
- category (e.g., Historical, Natural, Entertainment)
- package name (FK)
- package type (FK)

Hotels Entity Attributes:

- hotel ID
- hotel name
- hotel address
- hotel description
- hotel contact

Transportation Entity Attributes:

- Transportation ID
- Departure Location
- Arrival Location
- transportation_Type
- transportation class
- fare
- route

Package Entity Attributes:

- package name
- <u>package_type</u>description
- package price
- Number of Travelers

Review Entity Attributes:

- Review ID
- comments
- User ID (FK)
- package name(FK)
- package type(FK)

Users Entity Attributes:

- <u>User ID</u>
- user_name
- user email
- user nid
- user_contact

Bookings Entity Attributes:

- User ID (FK)
- Package name (FK)
- Package type (FK)
- payment

Packages Hotel Service Entity Attributes:

- package name (FK)
- package type (FK)
- <u>hotel_ID</u> (FK)

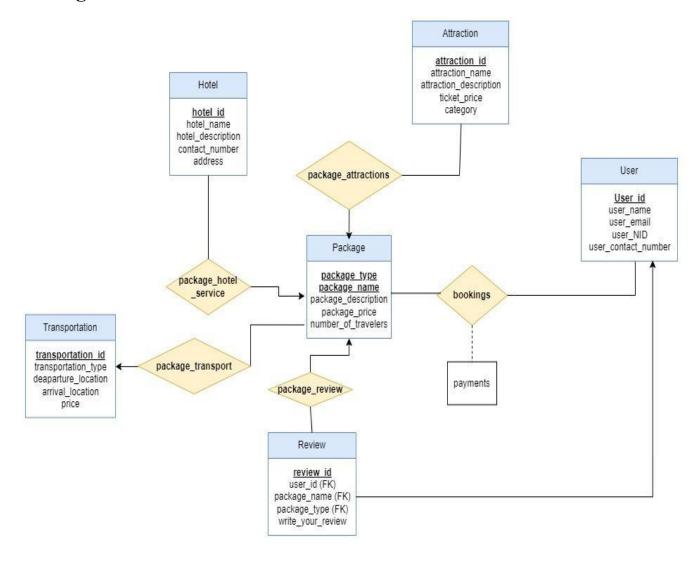
Package transportation Entity Attributes:

- transportation id (FK)
- Package name (FK)
- Package type (FK)

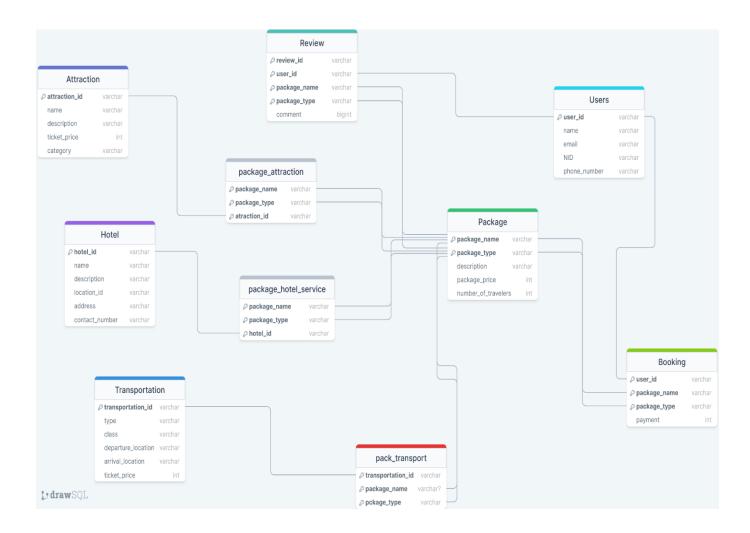
User hotel Attributes:

- user_ID (FK)
- hotel ID (FK)

ER Diagram:



Schema Diagram:



Inserted Data in Each Table

Package

package_name	package_type	description	package_price	numberoftravellers
Adventure in Sundarbans	Couple	Wildlife expedition for couples. Explore the mangr	120000	2
Adventure in Sundarbans	Family	Family adventure in the wild. Nature walks, bird w	180000	4
Adventure in Sundarbans	Single	Thrilling solo adventure. Jungle safaris, wildlife	70000	1
Cox's Bazar Retreat	Couple	Romantic beach getaway. Beachside dinners, water a	125000	2
Cox's Bazar Retreat	Single	Beach escape to Cox's Bazar. Sunbathing, water spo	70000	1
Hill Station Retreat: Bandarban	Couple	Romantic hillside escape. Waterfalls, indigenous v	110000	2
Hill Station Retreat: Bandarban	Family	Family getaway in the mountains. Adventure activit	160000	4
Hill Station Retreat: Bandarban	Single	Solo retreat in the hills. Hiking trails, tribal c	65000	1
Kuakata Exploration	Couple	Couples retreat to Kuakata. Sunset boat trips, bea	95000	2
Kuakata Exploration	Single	Kuakata beach adventure for solo travelers. Sunset	55000	1
Sajek Valley Expedition	Family	Family adventure to Sajek Valley. Tribal culture,	160000	4
Sajek Valley Expedition	Single	Solo journey to Sajek Valley. Hiking, camping, and	75000	1
Sylhet Tour	Couple	Romantic getaway for couples. Private tours, cozy	80000	2
Sylhet Tour	Family	Fun-filled family adventure. Activities for all ag	120000	4
Sylhet Tour	Single	Explore the beauty of Sylhet alone. Guided tours,	50000	1

User

user_id	user_name	user_email	user_nid	user_contact
2000	Md. Rahman	rahman@example.com	123456789012	01712345678
2001	Fatima Akter	fatima@example.com	234567890123	01987654321
2002	Sadia Ahmed	sadia@example.com	345678901234	01876543210
2003	Aminul Islam	aminul@example.com	456789012345	01654321098
2004	Nadia Khan	nadia@example.com	567890123456	01543210987
2005	Kamal Hossain	kamal@example.com	678901234567	01432109876
2006	Mehnaz Begum	mehnaz@example.com	789012345678	01321098765
2007	Farid Ahmed	farid@example.com	890123456789	01210987654
2008	Nusrat Jahan	nusrat@example.com	901234567890	01109876543
2009	Abdul Khaleq	khaleq@example.com	012345678901	01098765432
2010	Sara Rahman	sara@example.com	123456789013	01712345679
2011	Ahmed Khan	ahmed@example.com	234567890124	01987654322
2012	Nadia Islam	nadia@example.com	345678901235	01876543211
2013	Farhan Ahmed	farhan@example.com	456789012346	01654321099
2014	Amina Khan	amina@example.com	567890123457	01543210988

Attraction

attraction_id	attraction_name	attraction_description	ticket_price	category	package_name	package_type
	1 Sylhet Tea Gardens	Explore lush green tea gardens in Sylhet. Guided $t\dots$	1500	Nature	Sylhet Tour	Single
	2 Sundarbans Wildlife Safari	Exciting wildlife safari in the Sundarbans mangrov	2500	Adventure	Adventure in Sundarbans	Single
	3 Bandarban Waterfalls	Visit scenic waterfalls in Bandarban. Trekking and	1800	Nature	Hill Station Retreat: Bandarban	Single
	4 Cox's Bazar Beach	Enjoy the world's longest natural sea beach. Sunba	1000	Beach	Cox's Bazar Retreat	Single
	5 Kuakata Sunset Point	Witness stunning sunsets at Kuakata beach. Boat tr	1200	Beach	Cox's Bazar Retreat	Single
	Sajek Valley	Discover the beauty of Sajek Valley. Hilltop views	2000	Nature	Sajek Valley Expedition	Single
	7 Ratnodweep Island	Explore Ratnodweep Island. Crystal clear waters, w	1800	Adventure	Adventure in Sundarbans	Couple
	8 Madhabkunda Waterfall	Visit the Madhabkunda Waterfall. Hiking, bird watc	1500	Nature	Hill Station Retreat: Bandarban	Family
	9 Jaflong Tea Gardens	Experience tea gardens in Jaflong. Scenic beauty, \dots	1600	Nature	Cox's Bazar Retreat	Couple
1	D Lawachara National Park	Explore Lawachara National Park. Wildlife, trekkin	900	Nature	Cox's Bazar Retreat	Single

Hotel

hotel_	d	hotel_name	hotel_description	hotel_address	hotel_contact
	1	Luxury Resort & Spa	A luxurious resort overlooking the beach. Spa, poo	123 Beach Road, Coxs Bazar	01712345678
	2	Sundarbans Eco Lodge	Eco-friendly lodge in the heart of Sundarbans. Nat	456 Mangrove Lane, Sundarbans	01823456789
	3	Panorama Hill Resort	Scenic resort nestled in the hills of Bandarban. H	789 Hillside Drive, Bandarban	01934567890
	4	Riverfront Retreat	Riverside retreat with private cottages. Fishing,	101 Riverbank Avenue, Sylhet	01645678901
	5	Historical Heritage Inn	Charming heritage inn near Mohasthangarh. Historic	202 Archaeology Street, Bogura	01556789012
	6	Tranquil Beach Resort	Serene resort steps away from the beach. Beachfron	303 Sandy Beach Road, Coxs Bazar	01467890123
	7	Mangrove Lodge	Comfortable lodge in the heart of Sundarbans. Bird	404 Mangrove Lane, Sundarbans	01378901234
	8	Mountain View Retreat	Mountain resort with panoramic views. Hiking trail	505 Mountain Drive, Bandarban	01289012345
	9	Riverfront Bliss	Riverside hotel with spacious rooms. Riverside din	606 Riverbank Avenue, Sylhet	01190123456
	10	Bogura Heritage Inn	Historic inn in the heart of Bogura. Cultural expe	707 History Lane, Bogura	01012345678

Package-Hotel

package_name	package_type	hotel_id
Adventure in Sundarbans	Single	2
Adventure in Sundarbans	Single	7
Cox's Bazar Retreat	Couple	1
Cox's Bazar Retreat	Single	1
Hill Station Retreat: Bandarban	Couple	3
Hill Station Retreat: Bandarban	Family	8
Kuakata Exploration	Single	10
Sajek Valley Expedition	Family	3
Sylhet Tour	Single	4
Sylhet Tour	Single	9

Transportation

transportation_id	departure_location	arrival_location	transportation_type	transportation_class	fare	route
1	Dhaka	Sylhet	Life by Air	Economy	4500	Direct Flight
2	Dhaka	Sylhet	Life by Air	Business	9000	Direct Flight with Business Class Amenities
3	Dhaka	Sundarbans	Life by Water	Economy	2000	Launch Journey
4	Dhaka	Sundarbans	Life by Water	Business	4000	Luxury Cruise
5	Dhaka	Sylhet	Life by Train	Economy	490	Direct train
6	Dhaka	Sylhet	Life by Train	Business	9000	Direct Flight with Business Class Amenities
7	Dhaka	Cox's Bazar	Life by Air	Economy	4500	Direct Flight
8	Dhaka	Cox's Bazar	Life by Air	Business	9000	Direct Flight with Business Class Amenities
9	Dhaka	Kuakata	Life by Air	Economy	3500	Direct Flight
10	Dhaka	Sajek Valley	Life by Air	Economy	4000	Direct Flight

Package-Transportation

transportation_id	package_name	package_type
1	Sylhet Tour	Single
2	Sylhet Tour	Single
3	Adventure in Sundarbans	Single
4	Adventure in Sundarbans	Single
6	Hill Station Retreat: Bandarban	Couple
6	Hill Station Retreat: Bandarban	Family
7	Cox's Bazar Retreat	Single
8	Cox's Bazar Retreat	Couple
9	Kuakata Exploration	Single
10	Sajek Valley Expedition	Family

User-Hotel

user_id	hotel_id
2001	9
2002	9
2003	2
2004	7
2010	1
2011	1
2012	10
2013	3

Booking

user_id	package_name	package_type	payment
2001	Sylhet Tour	Single	4500
2002	Sylhet Tour	Single	9000
2003	Adventure in Sundarbans	Single	2500
2004	Adventure in Sundarbans	Single	4000
2005	Cox's Bazar Retreat	Single	5500
2010	Cox's Bazar Retreat	Single	5000
2011	Hill Station Retreat: Bandarban	Single	7000
2012	Adventure in Sundarbans	Family	2800
2013	Hill Station Retreat: Bandarban	Family	6800
2014	Cox's Bazar Retreat	Couple	9000

Review

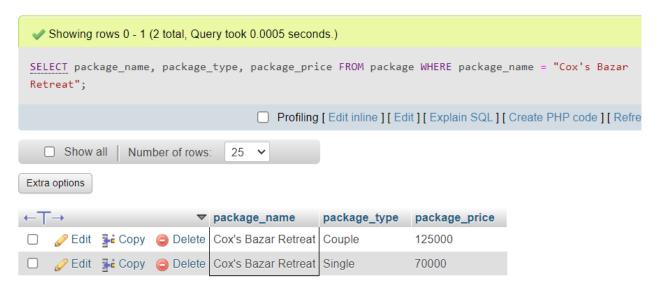
review_id	comments	user_id	package_name	package_type
1	Adventure Expeditions delivered a fantastic tour p	2001	Sylhet Tour	Single
2	Tranquil Tours offered a delightful escape with a	2002	Sylhet Tour	Single
3	Heritage Journeys provided an enlightening cultura	2003	Adventure in Sundarbans	Single
4	Nature's Edge Tours offers an exciting journey thr	2004	Adventure in Sundarbans	Single
5	Cox's Bazar Retreat exceeded my expectations! The \dots	2010	Cox's Bazar Retreat	Single
6	Kuakata Exploration provided me with a peaceful es	2011	Kuakata Exploration	Single
7	Sajek Valley Expedition was a fantastic family adv	2012	Sajek Valley Expedition	Family
8	Sajek Valley Expedition was breathtaking. The scen	2013	Sajek Valley Expedition	Single
9	Cox's Bazar Retreat was a romantic getaway. We enj	2014	Cox's Bazar Retreat	Couple
10	Cox's Bazar Retreat provided a perfect solo escape	2005	Cox's Bazar Retreat	Single
11	Adventure in Sundarbans was a thrilling experience	2003	Adventure in Sundarbans	Single
12	Hill Station Retreat: Bandarban was a romantic hil	2004	Hill Station Retreat: Bandarban	Couple
13	Adventure in Sundarbans was a fantastic family adv	2012	Adventure in Sundarbans	Family
14	Hill Station Retreat: Bandarban provided a perfect	2013	Hill Station Retreat: Bandarban	Family
15	Cox's Bazar Retreat was a romantic escape. The bea	2014	Cox's Bazar Retreat	Couple

SQL Queries:

1. How many number of travelers can avail one package of "Adventure in Sundarbans" - Family Package?



2. What are the prices of all the packages for "Cox's Bazar Retreat"?



3. Which hotels are connected to the most expensive and the cheapest packages?



4. Which user has booked the "Hill Station Retreat: Bandarban"-Family package?

SELECT users.user_name FROM users, booking WHERE booking.user_id = users.user_id AND booking.package_name = "Hill Station Retreat: Bandarban" AND booking.package_type = "FAMILY";
☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
☐ Show all Number of rows: 25 Filter rows: Search this table
Extra options
←

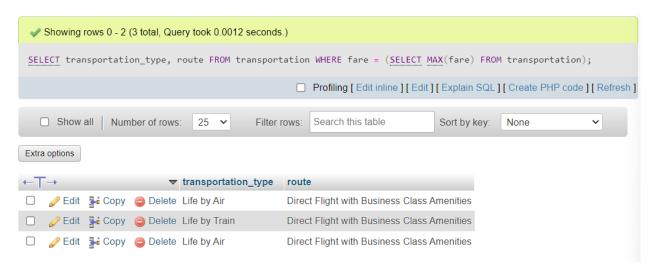
5. How many users stayed in "Riverfront Bliss"?



6. How many hotels are connected to Bandarban's package?



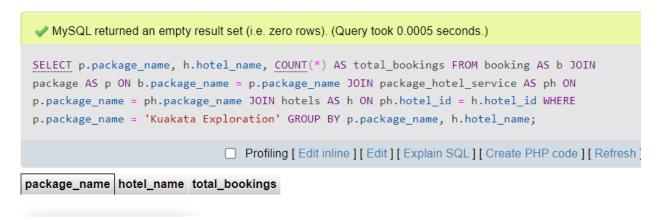
7. What is the route of the most expensive transport?



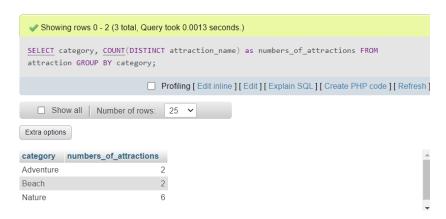
8. How many bookings were made in packages that are connected to hotel "Mangrove Lodge"?



9. How many users booked packages for Kuakata?



10. How many attractions are there in each category?



11. Where did Farhan Ahmed go on tour?



12. In which hotel did Sadia Ahmed stay on her tour?



13. What are the contact details of Nusrat Jahan?



14. Which transport type was booked my Ahmed Khan?

✓ Showing rows 0 - 0 (1 total, Query took 0.0010 seconds.)
<pre>SELECT DISTINCT user_name, transportation_type FROM users, booking, pack_trans, transportation WHERE users.user_id = booking.user_id AND booking.package_name = pack_trans.package_name AND pack_trans.transportation_id = transportation.transportation_id AND users.user_name = 'Ahmed Khan';</pre>
☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh
☐ Show all Number of rows: 25 ✔ Extra options
User_name transportation_type Ahmed Khan Life by Train

15. How many Direct routes are there in the transport system?

