

Database

Sample Question

You are provided with a database schema for a **travel** system. Your task is to create the database, insert sample data, and then write SQL queries to answer the questions about the data.

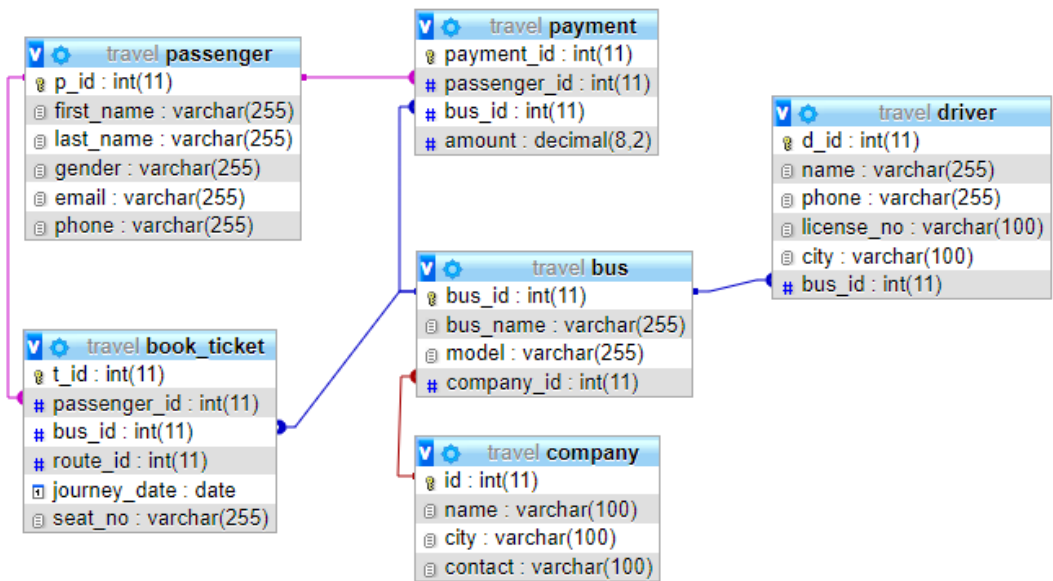


Figure: Schema diagram of travel database

1. Create a database name travel with above tables. [10]
2. Insert data in each table. Sample data are given in below. [5]

Company:

id	name	city	contact
1	SR Group	Dhaka	80988789
2	Karim Group	Faridpur	576577867
3	Hanif Travel	Dhaka	57678677

Bus

bus_id	bus_name	model	company_id
1	Hanif	volvo	3
2	Nabil	scania	1
3	Alam	volvo	1
4	SR	sarkar	1
5	Hanif Scania	Scania	3

Driver



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d_id	name	phone	license_no	city	bus_id
1	Habib	198398409	A125679	Dhaka	1
2	Kamal	1374577567	A125622	Barishal	2
3	Nabab	1983984409	A12534	Rajshahi	5
4	Jamal	1374877567	BA125679	Dhaka	4

Passenger

p_id	first_name	last_name	gender	email	phone
1	nasir	Hossain	male	nasir@gmail.com	1900987654
2	azim	Uddin	male	azim@gmail.com	9876262636
3	bina	Kabir	female	bina@gmail.com	1933987654
4	aslam	Khan	male	aslam@gmail.com	9876262636

Book_ticket:

t_id	passenger_id	bus_id	route_id	journey_date	seat_no
1	1	3	1	11/15/2019	A3
2	2	3	2	11/15/2019	A4
3	3	3	1	11/15/2019	A8
4	4	3	1	11/15/2019	B4

Payment

payment_id	passenger_id	bus_id	amount
1	4	3	500
2	2	1	500

3. Now write SQL for the following questions: [10]

1. List all buses along with their respective company names.
2. Find all drivers who work for 'SR Group'.
3. Count the number of passengers who have booked tickets for the bus named 'Alam'.
4. Find the average payment for each employee.
5. Find the total number of buses for each company.
6. Find all passengers who use Banglalink phone number.
Hints: phone number starts with 019 or 014
7. List the details of passengers who have made more than one payment.
8. List the details of the top 3 most frequently traveled passengers.
9. Create a view for the following problem:
Find the name (*first_name* and *last_name*), email, phone of all passengers.
10. Find the total revenue generated by each company.

Good Luck!!!