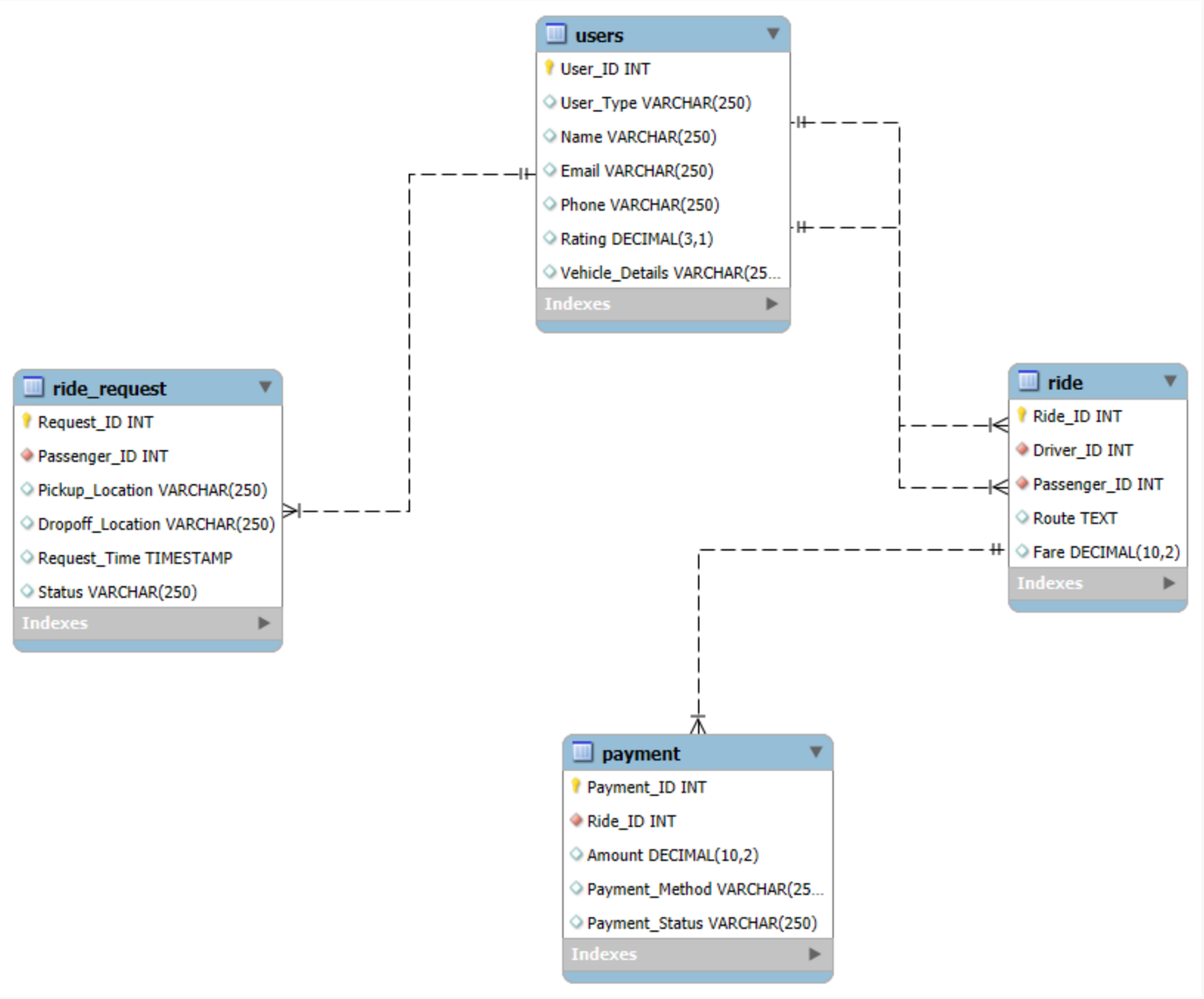
NSG TAXI

WE PLAN FOR YOUR TRAVEL

ABSTRACT

NSG TAXI is a taxi & cab service provider. It has one click booking process, which makes it very easy for passengers to book a taxi/cab. The database involves considerations such as user management, ride request, ride, payment processing, and analytics.

ER-MODEL


users
User_ID INT
User_Type VARCHAR(250)
Name VARCHAR(250)
Email VARCHAR(250)
Phone VARCHAR(250)
Rating DECIMAL(3,1)
Vehicle_Details VARCHAR(25...
Indexes
ride_request
Request_ID INT
Passenger_ID INT
Pickup_Location VARCHAR(250)
Dropoff_Location VARCHAR(250)
Request_Time TIMESTAMP
Status VARCHAR(250)
Indexes
ride
Ride_ID INT
Driver_ID INT
Passenger_ID INT
Route TEXT
Fare DECIMAL(10,2)
Indexes
payment
Payment_ID INT
Ride_ID INT
Amount DECIMAL(10,2)
Payment_Method VARCHAR(25...
Payment_Status VARCHAR(250)
Indexes

STRUCTURE OF USER TABLE

This table shows users' information and type of users.

Synatx: desc Users;

	Field	Type	Null	Key	Default	Extra
▶	User_ID	int	NO	PRI	NULL	
	User_Type	varchar(250)	YES		NULL	
	Name	varchar(250)	YES		NULL	
	Email	varchar(250)	YES		NULL	
	Phone	varchar(250)	YES		NULL	
	Rating	decimal(3,1)	YES		NULL	
	Vehicle_Details	varchar(250)	YES		NULL	

STRUCTURE OF RIDE REQUEST TABLE

This table shows details such as Request ID, Passenger ID, Pickup Location, Dropoff Location, Request Time and Status.

Syntax: desc Ride_Request;

Field	Type	Null	Key	Default	Extra
Request_ID	int	NO	PRI	NULL	
Passenger_ID	int	NO	MUL	NULL	
Pickup_Location	varchar(250)	YES		NULL	
Dropoff_Location	varchar(250)	YES		NULL	
Request_Time	timestamp	YES		CURRENT_TIMESTAMP	DEFAULT_GENERATED
Status	varchar(250)	YES		NULL	

STRUCTURE OF RIDE TABLE

This table shows details such as Ride ID, Driver ID, Passenger ID, Route and Fare.

Syntax: desc Ride;

Field	Type	Null	Key	Default	Extra
Ride_ID	int	NO	PRI	NULL	
Driver_ID	int	NO	MUL	NULL	
Passenger_ID	int	NO	MUL	NULL	
Route	text	YES		NULL	
Fare	decimal(10,2)	YES		NULL	

STRUCTURE OF PAYMENT TABLE

This table shows details such as Payment ID, Ride ID, Amount, Payment Method,Payment Status.

Syntax: desc Payment;

	Field	Type	Null	Key	Default	Extra
▶	Payment_ID	int	NO	PRI	NULL	
	Ride_ID	int	NO	MUL	NULL	
	Amount	decimal(10,2)	YES		NULL	
	Payment_Method	varchar(250)	YES		NULL	
	Payment_Status	varchar(250)	YES		NULL	

CONTENT OF USER TABLE

User_ID	User_Type	Name	Email	Phone	Rating	Vehicle_Details
1	Driver	Vedant	vedant@gmail.com	9876567590	4.7	MH05CV1187
2	Passenger	Manali	manali@gmail.com	9876890543	4.8	NULL
3	Driver	Akshay	akshay@gmail.com	9876567597	4.7	MH09CV1817
4	Passenger	Shraddha	shraddha@gmail.com	9876890547	4.8	NULL
5	Driver	Pranil	pranil@gmail.com	7868906547	4.8	MH12DE1433
6	Passenger	Neha	neha@gmail.com	8767565434	4.7	NULL
7	Driver	Swapnil	swapnil@gmail.com	9004273678	4.6	MH01AE8017
8	Passenger	Deepali	deepali@gmail.com	9892007301	4.7	NULL
9	Driver	Chirag	chirag@gmail.com	9004146300	4.8	MH20DV2366
10	Passenger	Marmik	marmik@gmail.com	8850527152	3.5	NULL
11	Driver	Abhedya	abhedya@gmail.com	8850527152	4.7	MH04JM8765
12	Passenger	Janhavi	janhavi@gmail.com	7743998176	4.8	NULL
13	Driver	Sanket	sanket@gmail.com	9892875199	4.6	MH01AV8866
14	Passenger	Bhargavi	bhargavi@gmail.com	7387505687	4.5	NULL
15	Driver	Amey	amey@gmail.com	9004145919	4.8	MH14BR6899
16	Passenger	Poonam	poonam@gmail.com	9594750627	3.7	NULL
17	Driver	Dinesh	dinesh@gmail.com	7678080097	4.6	MH43PR2356
18	Passenger	Sanika	sanika@gmail.com	7887403844	4.7	NULL
19	Driver	Chetan	chetan@gmail.com	9653267485	4.8	MH14BR2594
20	Passenger	Siddhi	siddhi@gmail.com	8779790235	4.8	NULL
NULL	NULL	NULL	NULL	NULL	NULL	NULL

CONTENT OF RIDE REQUEST TABLE

Request_ID	Passenger_ID	Pickup_Location	Dropoff_Location	Request_Time	Status
21	2	Thane	Mumbai	2024-08-03 18:28:04	Completed
22	4	Pune	Mumbai	2024-08-03 18:28:29	Accepted
23	6	Mumbai	Kolhapur	2024-08-03 18:28:29	Pending
24	8	Pune	Satara	2024-08-03 18:28:29	Accepted
25	10	Palghar	Ratnagiri	2024-08-03 18:28:29	Completed
26	12	Thane	Mumbai	2024-08-03 18:28:29	Accepted
27	14	Nagpur	Nashik	2024-08-03 18:28:29	Pending
28	16	Sangli	Solapur	2024-08-03 18:28:29	Accepted
29	18	Aurangabad	Mumbai	2024-08-03 18:28:29	Pending
30	20	Thane	Mumbai	2024-08-03 18:28:29	Accepted

CONTENT OF RIDE TABLE

Ride_ID	Driver_ID	Passenger_ID	Route	Fare
31	1	2	Shilphata	3000.00
32	3	4	Khopoli	7000.00
33	5	6	Ratnagiri	10000.00
34	7	8	Pune	8000.00
35	9	10	Raigad	12000.00
36	11	12	Shilphata	15000.00
37	13	14	Akola	10000.00
38	15	16	Solapur	8000.00
39	17	18	Nashik	20000.00
40	19	20	Shilphata	7000.00

CONTENT OF PAYMENT TABLE

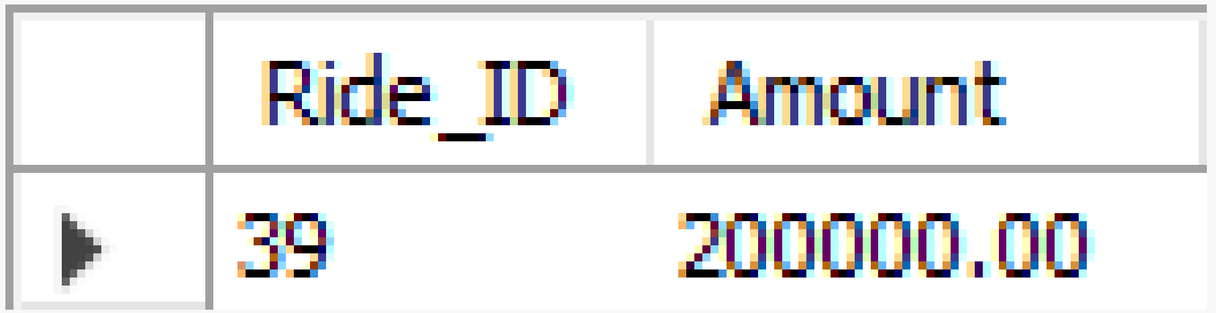
Payment_ID	Ride_ID	Amount	Payment_Method	Payment_Status
41	31	3000.00	CreditCard	Completed
42	32	7000.00	PayPal	Pending
43	33	10000.00	CreditCard	Completed
44	34	8000.00	PayPal	Pending
45	35	12000.00	CreditCard	Completed
46	36	15000.00	PayPal	Pending
47	37	10000.00	CreditCard	Completed
48	38	8000.00	PayPal	Pending
49	39	200000.00	CreditCard	Completed
50	40	7000.00	PayPal	Pending

SUBQUERIES

SUBQUERY

Find the details of rides, who all have the highest payment amount.

Syntax: select Ride_ID,Amount from Payment where Amount = (select max(Amount) from Payment);

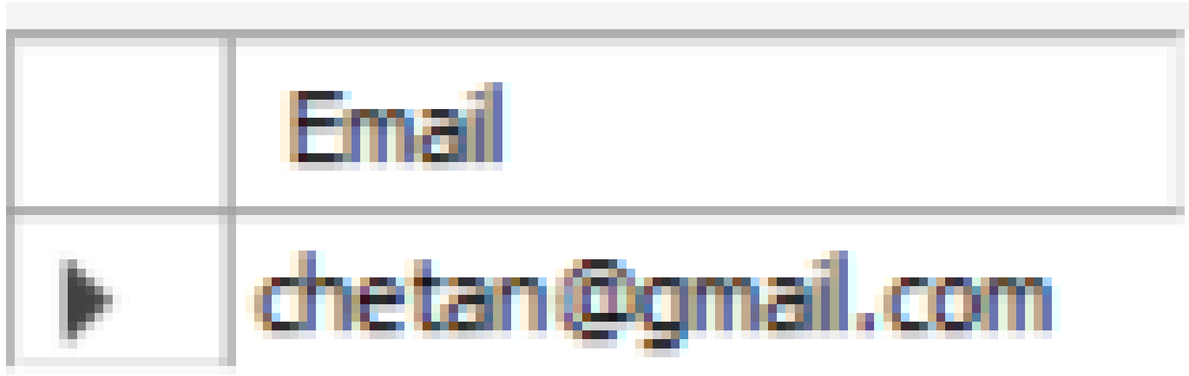


	Ride_ID	Amount
▶	39	200000.00

SUBQUERY

Get the email of the highest rated driver.

Syntax: select Email from Users
where User_ID = (select User_ID from
Users where User_Type = 'Driver' order
by Rating desc limit 1);



SUBQUERY

Find the details of passengers whose fare is equal to the fare of at least one passenger in passenger_id=4.

Syntax: select Passenger_ID,Fare from Ride where Fare IN (select Fare from Ride where Passenger_ID=4);

Passenger_ID	Fare
4	7000.00
20	7000.00

SUBQUERY

List drivers who have completed rides with a fare greater than the average fare.

Syntax: select distinct Driver_ID from Ride where Fare > any (select Fare from Payment p join Ride r on p.Ride_ID = r.Ride_ID where p.Payment_Status = 'Completed' group by Fare);

Driver_ID
3
5
7
9
11
13
15
17
19

JOINS

JOINS

Display passengers associated with various rides.

Syntax: select RideRequest.Passenger_ID, RideRequest.Pickup_Location, RideRequest.Dropoff_Location, Rides.Route from Ride_Request as RideRequest INNER JOIN Ride as Rides on RideRequest.Passenger_ID = Rides.Passenger_ID;

Passenger_ID	Pickup_Location	Dropoff_Location	Route
2	Thane	Mumbai	Shilphata
4	Pune	Mumbai	Khopoli
6	Mumbai	Kolhapur	Ratnagiri
8	Pune	Satara	Pune
10	Palghar	Ratnagiri	Raigad
12	Thane	Mumbai	Shilphata
14	Nagpur	Nashik	Akola
16	Sangli	Solapur	Solapur
18	Aurangabad	Mumbai	Nashik
20	Thane	Mumbai	Shilphata

JOINS

Display payment status of the passengers.

Syntax: select
Rides.Passenger_ID,Rides.Fare,
Payments.Payment_Method,
Payments.Payment_Status from
Ride as Rides Left JOIN
Payment as Payments on
Rides.Ride_ID=Payments.Ride_ID;

Passenger_ID	Fare	Payment_Method	Payment_Status
2	3000.00	CreditCard	Completed
4	7000.00	PayPal	Pending
6	10000.00	CreditCard	Completed
8	8000.00	PayPal	Pending
10	12000.00	CreditCard	Completed
12	15000.00	PayPal	Pending
14	10000.00	CreditCard	Completed
16	8000.00	PayPal	Pending
18	20000.00	CreditCard	Completed
20	7000.00	PayPal	Pending

JOINS

Display passengers' names for each rides.

Syntax: select rr.Request_ID, rr.Passenger_ID, u.Name as Passenger_Name, rr.Pickup_Location, rr.Dropoff_Location, rr.Status
from Ride_Request rr
RIGHT JOIN Users u on rr.Passenger_ID = u.User_ID where u.User_Type = 'Passenger';

Request_ID	Passenger_ID	Passenger_Name	Pickup_Location	Dropoff_Location	Status
21	2	Manali	Thane	Mumbai	Completed
22	4	Shraddha	Pune	Mumbai	Accepted
23	6	Neha	Mumbai	Kolhapur	Pending
24	8	Deepali	Pune	Satara	Accepted
25	10	Marmik	Palghar	Ratnagiri	Completed
26	12	Janhavi	Thane	Mumbai	Accepted
27	14	Bhargavi	Nagpur	Nashik	Pending
28	16	Poonam	Sangli	Solapur	Accepted
29	18	Sanika	Aurangabad	Mumbai	Pending
30	20	Siddhi	Thane	Mumbai	Accepted

JOINS

Display payment method of the passengers.

Syntax: select
Rides.Passenger_ID,Rides.Fare,
Payments.Payment_Method from
Ride as Rides Cross JOIN
Payment as Payments
on Rides.Ride_ID=Payments.Ride_ID;

Passenger_ID	Fare	Payment_Method
2	3000.00	CreditCard
4	7000.00	PayPal
6	10000.00	CreditCard
8	8000.00	PayPal
10	12000.00	CreditCard
12	15000.00	PayPal
14	10000.00	CreditCard
16	8000.00	PayPal
18	20000.00	CreditCard
20	7000.00	PayPal

VIEWS

VIEWS

Create view for more than 4.6 rating.

Syntax: create view Users_view AS select User_ID,User_Type,Name,Rating from Users where rating>4.6;

User_ID	User_Type	Name	Rating
1	Driver	Vedant	4.7
2	Passenger	Manali	4.8
3	Driver	Akshay	4.7
4	Passenger	Shraddha	4.8
5	Driver	Pranil	4.8
6	Passenger	Neha	4.7
8	Passenger	Deepali	4.7
9	Driver	Chirag	4.8
11	Driver	Abhedya	4.7
12	Passenger	Janhavi	4.8
15	Driver	Amey	4.8
18	Passenger	Sanika	4.7
19	Driver	Chetan	4.8
20	Passenger	Siddhi	4.8

VIEWS

Create a view for the route taken for each ride.

Syntax: create view Road_view AS select Ride_Request.Passenger_ID, Ride_Request.Pickup_Location, Ride_Request.Dropoff_Location, Ride.Route from Ride_Request,Ride where Ride_Request.Passenger_ID = Ride.Passenger_ID;

Passenger_ID	Pickup_Location	Dropoff_Location	Route
2	Thane	Mumbai	Shilphata
4	Pune	Mumbai	Khopoli
6	Mumbai	Kolhapur	Ratnagiri
8	Pune	Satara	Pune
10	Palghar	Ratnagiri	Raigad
12	Thane	Mumbai	Shilphata
14	Nagpur	Nashik	Akola
16	Sangli	Solapur	Solapur
18	Aurangabad	Mumbai	Nashik
20	Thane	Mumbai	Shilphata

PREPARED BY :

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IT Vedant

May24-T319/9-11/PS/DS

THANK YOU!