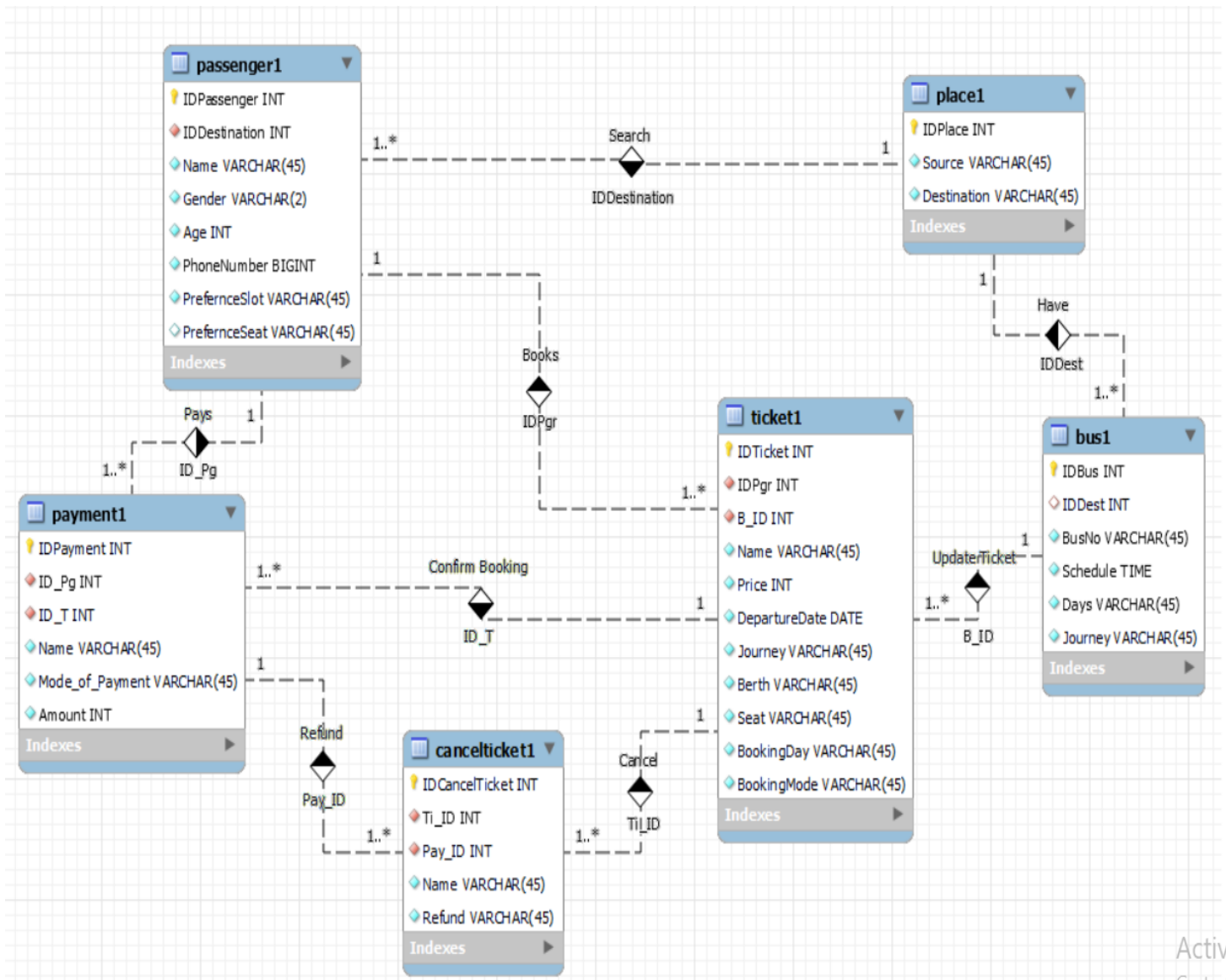
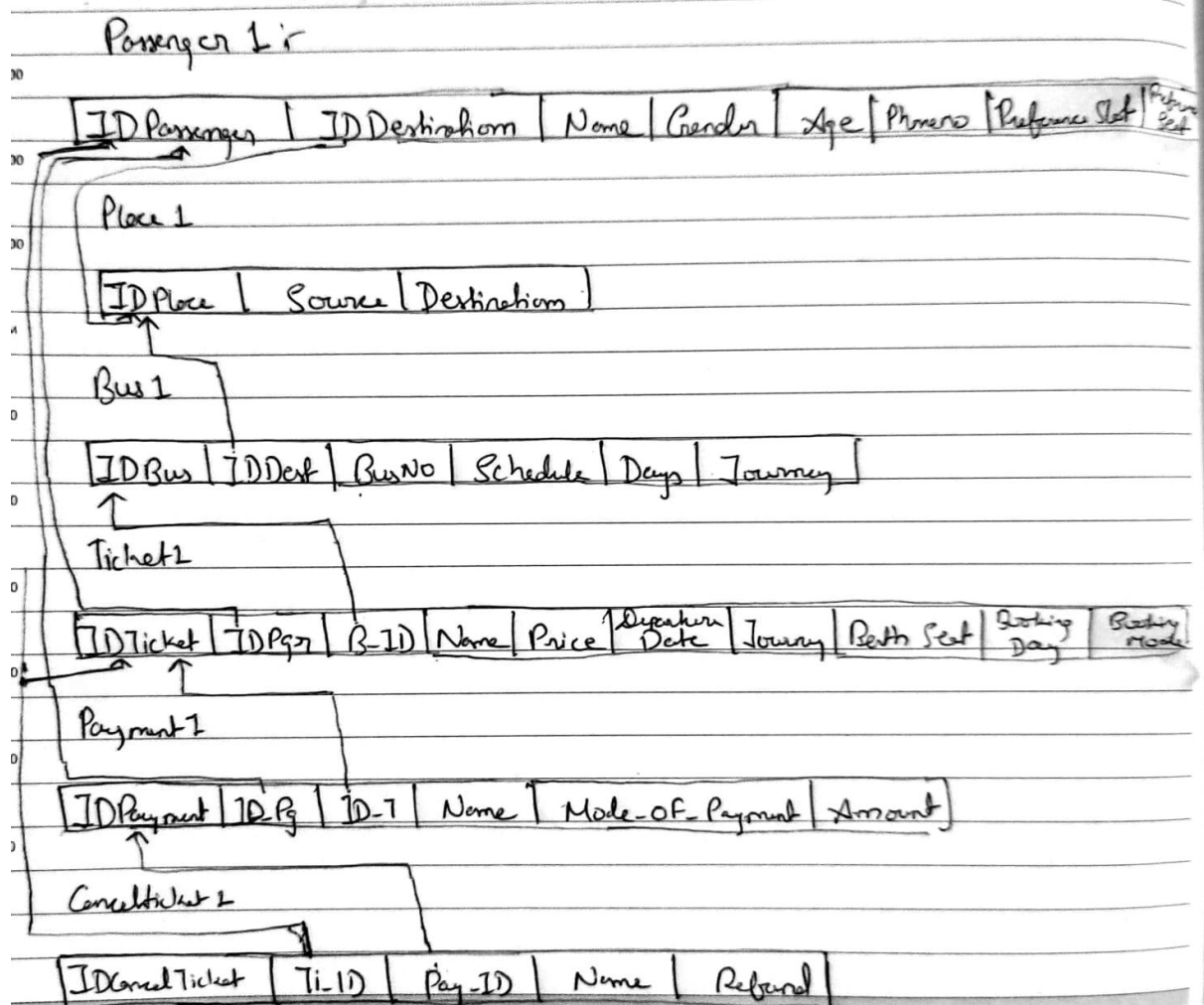


# Online SBSTC Ticket Booking System

## ER Diagram



# Schema



# Tables

## Passenger1 table

[illegible]

## Bus1 table

	IDBus	IDDest	BusNo	Schedule	Days	Journey
►	201	4	WB12V4567	16:20:00	S,M,T,F	Burdwan to Kolkata
	202	1	WB24B1253	09:00:00	M,W,Th,Su	Kolkata to Burdwan
	203	2	WB33S9758	10:05:50	M,T,W,Th,F	Kolkata to Durgapur
	204	4	WB14Q6363	12:00:00	T,Th,S	Burdwan to Kolkata
	205	2	WB69O8910	23:50:00	T,Th,S,Su	Kolkata to Durgapur
	206	3	WB55W0220	11:30:40	M,W,F	Kolkata to Asansol
	207	3	WB11P7725	20:30:45	M,W,Th,Su	Kolkata to Asansol
	208	2	WB38F9548	19:45:00	T,Th,S,Su	Kolkata to Durgapur
	209	1	WB78A1111	18:30:10	S,M,T,F	Kolkata to Burdwan
	210	4	WB05B3434	22:23:06	M,W,F,S	Burdwan to Kolkata
	211	1	WB99E0888	23:11:41	M,W,Th,Su	Kolkata to Burdwan
	212	3	WB23N6064	07:10:10	T,Th,S,Su	Kolkata to Asansol
	NULL	NULL	NULL	NULL	NULL	NULL

## Place1 table

	IDPlace	Source	Destination
►	1	Kolkata	Burdwan
	2	Kolkata	Durgapur
	3	Kolkata	Asansol
	4	Burdwan	Kolkata
	5	Burdwan	Durgapur
	6	Burdwan	Asansol
	7	Durgapur	Kolkata
	8	Durgapur	Burdwan
	9	Durgapur	Asansol
	10	Asansol	Kolkata
	11	Asansol	Burdwan
	12	Asansol	Durgapur
	NULL	NULL	NULL

## Ticket1 table

IDTicket	IDPgr	B_ID	Name	Price	DepartureDate	Journey	Berth	Seat	BookingDay	BookingMode
301	102	203	Dipika Roy	120	2023-03-19	Kolkata to Asansol	sleeper	window	monday	counter
302	101	202	Sujoy Ghosh	50	2023-03-18	Kolkata to Burdwan	sleeper	front	wednesday	online
303	103	210	Rashi Khanna	50	2023-03-25	Burdwan to Kolkata	seat	window	tuesday	counter
304	105	205	Imran Ahmed	100	2023-03-23	Kolkata to Durgapur	seat	middle	sunday	online
305	106	212	Roshini Singh	120	2023-03-19	Kolkata to Asansol	sleeper	window	thursday	counter
306	109	211	Sahdab Alam	50	2023-03-27	Kolkata to Burdwan	sleeper	front	friday	online
307	107	210	Md. Sohel	50	2023-03-20	Burdwan to Kolkata	seat	front	monday	online
308	108	205	Aisha Mondal	100	2023-03-25	Kolkata to Durgapur	seat	window	sunday	counter
309	110	207	Isha Kaur	120	2023-03-19	Kolkata to Asansol	seat	middle	tuesday	online
310	104	202	Sapna Jaiswal	50	2023-03-25	Kolkata to Burdwan	sleeper	window	saturday	online
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

## Payment1 table

IDPayment	ID_Pg	ID_T	Name	Mode_of_Payment	Amount
401	102	301	Dipika roy	counter	120
402	101	302	Sujoy Ghosh	Net Banking	50
403	103	303	Rashi Khanna	counter	50
404	105	304	Imran Ahmed	UPI	100
405	106	305	Roshini Singh	counter	120
406	109	306	Sahdab Alam	Credit Card	50
407	107	307	Md. Sohel	Debit Card	50
408	108	308	Aisha Mondal	counter	100
409	110	309	Isha Kaur	UPI	120
410	104	310	Sapna Jaiswal	Net Banking	50
NULL	NULL	NULL	NULL	NULL	NULL

## CancelTicket1 table

IDCancelTicket	Ti_ID	Pay_ID	Name	Refund
501	307	407	Md. Sohel	Done
NULL	NULL	NULL	NULL	NULL

# Queries

-- Q1. List the buses from Kolkata to Durgapur

SELECT \* FROM ticket\_booking\_system.bus1 where journey='Kolkata to Durgapur';

	IDBus	IDDest	BusNo	Schedule	Days	Journey
▶	203	2	WB33S9758	10:05:50	M,T,W,Th,F	Kolkata to Durgapur
	205	2	WB69O8910	23:50:00	T,Th,S,Su	Kolkata to Durgapur
	208	2	WB38F9548	19:45:00	T,Th,S,Su	Kolkata to Durgapur
✱	NULL	NULL	NULL	NULL	NULL	NULL

-- Q2. From 9am to 12 pm ,Find the availability of buses from Kolkata to Burdwan

SELECT \* FROM ticket\_booking\_system.bus1 where Journey='Kolkata to Burdwan' and schedule between '09:00:00'and'12:00:00';

	IDBus	IDDest	BusNo	Schedule	Days	Journey
▶	202	1	WB24B1253	09:00:00	M,W,Th,Su	Kolkata to Burdwan
✱	NULL	NULL	NULL	NULL	NULL	NULL

-- Q3. Find the passengers who booked the ticket for Kolkata to Durgapur on sunday

SELECT \* FROM ticket\_booking\_system.ticket1 Name where BookingDay='sunday';

	IDTicket	IDPgr	B_ID	Name	Price	DepartureDate	Journey	Berth	Seat	BookingDay	BookingMode
▶	304	105	205	Imran Ahmed	100	2023-03-23	Kolkata to Durgapur	seat	middle	sunday	online
	308	108	205	Aisha Mondal	100	2023-03-25	Kolkata to Durgapur	seat	window	sunday	counter
✱	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- Q4. Find the name started with 'S' who are travelling by bus at 9 am from Kolkata

```
SELECT
    ticket1.Name ,
    bus1.Schedule ,
    place1.Source
FROM ticket1
INNER JOIN bus1
    ON ticket1.B_ID = bus1.IDBus
INNER JOIN place1
    ON bus1.IDDest = place1.IDPlace
```

where place1.Source='Kolkata' and ticket1.Name like 'S\_%' and  
bus1.Schedule='09:00:00';

	Name	Schedule	Source
▶	Sujoy Ghosh	09:00:00	Kolkata
	Sapna Jaiswal	09:00:00	Kolkata

-- Q5. List the passenger who are more than 60 years prefer to travel in morning

SELECT \* FROM ticket\_booking\_system.passenger1 Name where age >= 60 and PreferenceSlot='morning';

	IDPassenger	IDDestination	Name	Gender	Age	PhoneNumber	PreferenceSlot	PreferenceSeat
▶	101	1	Sujoy Ghosh	M	60	9655123474	morning	sleeper
	104	2	Sapna Jaiswal	F	68	6847125630	morning	sleeper
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- Q6. List the passengers who are travelling from Kolkata to Asansol dated on 19/03/23

SELECT \* FROM ticket\_booking\_system.ticket1 where Journey='Kolkata to Asansol' and DepartureDate='2023-03-19' ;

	IDTicket	IDPgr	B_ID	Name	Price	DepartureDate	Journey	Berth	Seat	BookingDay	BookingMode
▶	301	102	203	Dipika Roy	120	2023-03-19	Kolkata to Asansol	sleeper	window	monday	counter
	305	106	212	Roshini Singh	120	2023-03-19	Kolkata to Asansol	sleeper	window	thursday	counter
	309	110	207	Isha Kaur	120	2023-03-19	Kolkata to Asansol	seat	middle	tuesday	online
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- Q7. List the buses which are available between 9:00 am to 12:00 pm for Kolkata to Burdwan.

SELECT \* FROM ticket\_booking\_system.bus1 where Journey='Kolkata to Burdwan' and schedule between '09:00:00'and'12:00:00';

	IDBus	IDDest	BusNo	Schedule	Days	Journey
▶	202	1	WB24B1253	09:00:00	M,W,Th,Su	Kolkata to Burdwan
*	NULL	NULL	NULL	NULL	NULL	NULL

-- Q8. Count the passengers whose age is more than 50.

SELECT count(IDPassenger) as no\_of\_passenger\_above\_50 from passenger1 where age >= 50 ;

	no_of_passenger_above_50
▶	4

-- Q9. Count the female passengers who have booked the ticket for 25/03/23 (Calendar Expected date).

```
SELECT
ticket1.DepartureDate,
count(passenger1.Gender ) as number_of_females
FROM passenger1
INNER JOIN ticket1
ON passenger1.IDPassenger = ticket1.IDPgr
where ticket1.DepartureDate='2023-03-25';
```

	DepartureDate	number_of_females
▶	2023-03-25	3

-- Q10. List the passengers who have booked the ticket from counter for Kolkata to Asansol.

```
select * from ticket1 where BookingMode='counter';
```

	IDTicket	IDPgr	B_ID	Name	Price	DepartureDate	Journey	Berth	Seat	BookingDay	BookingMode
▶	301	102	203	Dipika Roy	120	2023-03-19	Kolkata to Asansol	sleeper	window	monday	counter
	303	103	210	Rashi Khanna	50	2023-03-25	Burdwan to Kolkata	seat	window	tuesday	counter
	305	106	212	Roshini Singh	120	2023-03-19	Kolkata to Asansol	sleeper	window	thursday	counter
	308	108	205	Aisha Mondal	100	2023-03-25	Kolkata to Durgapur	seat	window	sunday	counter
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- Q11. List the passengers who have booked the ticket for Kolkata to Asansol online mode.

```
select * from ticket1 where journey='Kolkata to Asansol' and BookingMode='online';
```

	IDTicket	IDPgr	B_ID	Name	Price	DepartureDate	Journey	Berth	Seat	BookingDay	BookingMode
▶	309	110	207	Isha Kaur	120	2023-03-19	Kolkata to Asansol	seat	middle	tuesday	online
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

-- Q12. List passengers who cancelled the ticket from Burdwan to Kolkata.

```
select
cancelticket1.Name,
ticket1.Journey
from cancelticket1
inner join ticket1
on cancelticket1.Ti_ID=ticket1.IDTicket
where ticket1.Journey='Burdwan to Kolkata';
```

	Name	Journey
▶	Md. Sohel	Burdwan to Kolkata



-- Q13. List the passengers who have booked the ticket for window seat and they are female.

```
select  
ticket1.Name,  
ticket1.Seat,  
passenger1.Gender  
from ticket1  
inner join passenger1  
on ticket1.IDPgr=passenger1.IDPassenger  
where ticket1.Seat='window'and passenger1.Gender='F';
```

	Name	Seat	Gender
▶	Dipika Roy	window	F
	Rashi Khanna	window	F
	Roshini Singh	window	F
	Aisha Mondal	window	F
	Sapna Jaiswal	window	F

-- Q14. Count the passengers who booked the ticket through UPI, NET Banking, Counter, and other online modes.

```
select count(IDPayment) as NetBanking from payment1  
where Mode_of_Payment='Net Banking';
```

	NetBanking
▶	2

```
select count(IDPayment) as UPI from payment1  
where Mode_of_Payment='UPI';
```

	UPI
▶	2

```
select count(IDPayment) as Counter from payment1  
where Mode_of_Payment='counter';
```

	Counter
▶	4

```
select count(IDPayment) as Credit_card from payment1  
where Mode_of_Payment='Credit card';
```



	Credit_card
▶	1

select count(IDPayment) as Debit\_card from payment1  
where Mode\_of\_Payment='Debit card';

	Debit_card
▶	1