

Consider the following Tables for a bus reservation system application:

BUS (ROUTENO, SOURCE, DESTINATION)

PASSENGER (PID, PNAME, YOB, GENDER)

BOOK_TICKET (PID, ROUTENO, JOURNEY_DATE, SEAT_NO)

- Display the source and destination of route with routeno 99.
- Display the pid of passengers who have booked the journey from Mumbai to Chennai
- Display the Gender and person count in that Gender.
- Display the RouteNo, source, destination of journeys planned today 7.6.2022.
- Develop a procedure to display details of passenger who have born in year 1974.
- Write a function to display the Source city of Routeno 6.

BUS RESERVATION SYSTEM APPLICATION

```
create table BUS (ROUTENO int primary key not null,
                  SOURCES nvarchar(50) not null,
                  DESTINATION nvarchar(50) not null);
create table PASSENGER (PID int primary key not null,
                        PNAME nvarchar(40) not null,
                        YOB int not null,
                        GENDER nvarchar(12));
create table BOOK_TICKET (PID int foreign key references PASSENGER,
                           ROUTENO int foreign key references BUS,
                           JOURNEY_DATE date not null,
                           SEAT_NO int primary key not null);
```

Messages

Commands completed successfully.

Completion time: 2023-03-20T10:32:38.4632428+05:30

```
A) insert into BUS values(13, 'chennai', 'banglore'),
                        (20, 'trichy', 'chennai'),
                        (45, 'trinelveili', 'madurai'),
                        (99, 'mumbai', 'chennai'),
                        (6, 'chennai', 'vishakapattnam');
```

```
select sources, destination from BUS where ROUTENO=99;
```

Results		Messages	
	sources	destination	
1	mumbai	chennai	

```
B) select i.PID from BOOK_TICKET i inner join BUS b on i.ROUTENO = b.ROUTENO where
SOURCES='mumbai' and DESTINATION='chennai' ;
```

Results		Messages
	PID	
1	14	

C) `select GENDER ,count(GENDER)"Person_count" from PASSENGER group by GENDER order by GENDER;`

Results			Messages
	GENDER	Person_count	
1	female	2	
2	male	3	

D) `select b.ROUTENO,b.SOURCES,b.DESTINATION from BUS as b inner join BOOK_TICKET as bt on b.ROUTENO=bt.ROUTENO where JOURNEY_DATE='2022-06-07';`

Results				Messages
	ROUTENO	SOURCES	DESTINATION	
1	45	trinelveli	madurai	

E) `CREATE PROCEDURE udp_Bus_reservation`
`-- Add the parameters for the stored procedure here`

```

AS
BEGIN
    -- SET NOCOUNT ON added to prevent extra result sets from
    -- interfering with SELECT statements.
    SET NOCOUNT ON;

    -- Insert statements for procedure here
    select * from PASSENGER where yob=1974
END
GO

exec dbo.udp_Bus_reservation;
```

Results					Messages
	PID	PNAME	YOB	GENDER	
1	12	arun	1974	male	

F) `CREATE FUNCTION udf_Bus_reserve`
`(`
`-- Add the parameters for the function here`
`)`
`RETURNS TABLE`
`AS`
`RETURN`

```
(  
    -- Add the SELECT statement with parameter references here  
    SELECT SOURCES from BUS where ROUTENO=6  
)  
GO
```

Results		Messages	
SOURCES			
1	chennai		