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)

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

## BUS\_RESERVATION\_SYSTEM\_APPLICATION

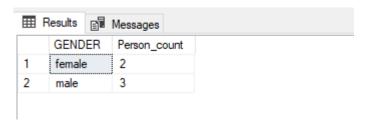
```
create table BUS
                      (ROUTENO int primary key not null,
                                    SOURCES nvarchar(50) not null,
                                    DESTINATION nvarchar(50) not null);
   create table PASSENGER (PID int primary key not null,
                                            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

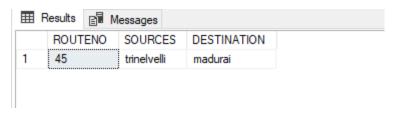
             Commands completed successfully.
             Completion time: 2023-03-20T10:32:38.4632428+05:30
A) insert into BUS values(13, 'chennai', 'banglore'),
                                            (20, 'trichy', 'chennai'),
                                            (45, 'trinelvelli', 'madurai'),
                                            (99,'mumbai','chennai'),
(6,'chennai','vishakapattnam');
       select sources, destination from BUS where ROUTENO=99;
             Results 📳 Messages
                  sources
                          destination
                  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';
```



C) select GENDER ,count(GENDER) "Person\_count" from PASSENGER group by GENDER order by GENDER;



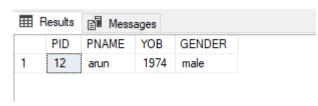
D) select b.ROUTENO,b.SOURCES,b.DESTINATION from BUS as b inner join BOOK\_TICKET as bt on b.ROUTENO=bt.ROUTENO where JOURNEY\_DATE='2022-06-07';



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;
```



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

