

# DBMS END-LAB

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**ROLL NUMBER:- S20210010044**

**DATE:- 05-12-2022**

**Question A:-**

**CREATING TABLES:-**

```
mysql> create table Bus(  
  -> BusNo varchar(20),Source varchar(20),  
  -> Destination varchar(20),CoachType varchar(20),  
  -> primary key(BusNo));  
Query OK, 0 rows affected (0.08 sec)
```

```
mysql> create table Ticket(  
  -> TicketNo varchar(20),DOJ date,Address varchar(20),ContactNo varchar(20),  
  -> BusNo varchar(20),SeatNo int,Source varchar(20),Destination varchar(20),  
  -> primary key(TicketNo));  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table Passenger(  
  -> PassengerID varchar(20),TicketNo varchar(20),Name varchar(20), ContactNo varchar(20),  
  -> Age int,Sex varchar(20),Address varchar(20), primary key(PassengerId));  
Query OK, 0 rows affected (0.02 sec)
```

```
mysql> create table Reservation(  
  -> PNRNo varchar(20),DOJ date,NoofSeats int,Address varchar(20),  
  -> ContactNo varchar(20),BusNo varchar(20),SeatNo varchar(20), primary key(PNRNo));  
Query OK, 0 rows affected (0.02 sec)
```

## Question B:-

### INSERTING VALUES:-

```
mysql> insert into Bus values("B101","Chennai","Nellore","AC");
Query OK, 1 row affected (0.01 sec)

mysql> insert into Bus values("B102","Chennai","Kakinada","AC");
Query OK, 1 row affected (0.00 sec)

mysql> insert into Bus values("B103","Chennai","Sricity","Super Deluxe");
Query OK, 1 row affected (0.00 sec)

mysql> insert into Bus values("B104","Tirupati","Sricity","Super Deluxe");
Query OK, 1 row affected (0.01 sec)

mysql> insert into Bus values("B105","Nellore","Kakinada","Non Stop");
Query OK, 1 row affected (0.01 sec)

mysql> insert into Bus values("B106","Kakinada","Nellore","Non Stop");
Query OK, 1 row affected (0.00 sec)
```

```
mysql> insert into Ticket values("T1001","2022-11-25","Banker's Colony","8767827387","B105",12,"Nellore","Kakinada");
Query OK, 1 row affected (0.01 sec)

mysql> insert into Ticket values("T1002","2022-11-28","Baker's Colony","7678827387","B105",12,"Nellore","Kakinada");
Query OK, 1 row affected (0.00 sec)

mysql> insert into Ticket values("T1003","2022-12-28","Tailor's Colony","7678828787","B102",18,"Chennai","Kakinada");
Query OK, 1 row affected (0.00 sec)

mysql> insert into Ticket values("T1004","2022-11-28","Warner's Colony","9978828787","B102",25,"Chennai","Kakinada");
Query OK, 1 row affected (0.01 sec)

mysql> insert into Ticket values("T1005","2022-11-18","Hitler's Colony","9979828787","B103",35,"Chennai","Sricity");
Query OK, 1 row affected (0.01 sec)

mysql> insert into Ticket values("T1006","2022-10-18","Kishan's Colony","9979828007","B103",35,"Chennai","Sricity");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Passenger values("P101","T1004","Shyam","9978828787",22,"M","Warner's Colony");
Query OK, 1 row affected (0.01 sec)

mysql> insert into Passenger values("P102","T1005","Jaya","9979828787",32,"F","Hitler's Colony");
Query OK, 1 row affected (0.01 sec)

mysql> insert into Passenger values("P103","T1006","Ravi","9979828007",39,"M","Kishan's Colony");
Query OK, 1 row affected (0.00 sec)

mysql> insert into Passenger values("P104","T1001","Nikki","8767827387",19,"F","Banker's Colony");
Query OK, 1 row affected (0.00 sec)

mysql> insert into Passenger values("P105","T1002","Nikhil","7678827387",29,"M","Baker's Colony");
Query OK, 1 row affected (0.01 sec)

mysql> insert into Passenger values("P106","T1003","Mamakutty","7678828787",26,"F","Tailor's Colony");
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into Reservation values("PNR22001","2022-12-05",24,"Market Street","9999911112","B105",13);
Query OK, 1 row affected (0.01 sec)

mysql> insert into Reservation values("PNR22002","2022-12-09",34,"Fish Market Street","9889911112","B104",33);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Reservation values("PNR22003","2022-11-09",14,"Fisher Street","9889900112","B101",43);
Query OK, 1 row affected (0.01 sec)

mysql> insert into Reservation values("PNR22004","2022-11-19",18,"Fisherman Street","9089900112","B102",3);
Query OK, 1 row affected (0.00 sec)

mysql> insert into Reservation values("PNR22005","2022-11-29",20,"Washerman Street","9089900166","B106",30);
Query OK, 1 row affected (0.01 sec)

mysql> insert into Reservation values("PNR22006","2022-11-21",30,"Washington Street","9077900166","B103",33);
Query OK, 1 row affected (0.00 sec)
```

## AFTER INSERTION:-

```
mysql> SELECT * FROM BUS;
-> ..
+-----+-----+-----+-----+
| BusNo | Source | Destination | CoachType |
+-----+-----+-----+-----+
| B101  | Chennai | Nellore     | AC         |
| B102  | Chennai | Kakinada    | AC         |
| B103  | Chennai | Sricity     | Super Deluxe |
| B104  | Tirupati | Sricity     | Super Deluxe |
| B105  | Nellore | Kakinada    | Non Stop   |
| B106  | Kakinada | Nellore     | Non Stop   |
+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM TICKET;..
+-----+-----+-----+-----+-----+-----+-----+-----+
| TicketNo | DOJ | Address | ContactNo | BusNo | SeatNo | Source | Destination |
+-----+-----+-----+-----+-----+-----+-----+-----+
| T1001    | 2022-11-25 | Banker's Colony | 8767827387 | B105 | 12 | Nellore | Kakinada |
| T1002    | 2022-11-28 | Baker's Colony | 7678827387 | B105 | 12 | Nellore | Kakinada |
| T1003    | 2022-12-28 | Tailor's Colony | 7678828787 | B102 | 18 | Chennai | Kakinada |
| T1004    | 2022-11-28 | Warner's Colony | 9978828787 | B102 | 25 | Chennai | Kakinada |
| T1005    | 2022-11-18 | Hitler's Colony | 9979828787 | B103 | 35 | Chennai | Sricity |
| T1006    | 2022-10-18 | Kishan's Colony | 9979828007 | B103 | 35 | Chennai | Sricity |
+-----+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM PASSENGER;..
+-----+-----+-----+-----+-----+-----+-----+
| PassengerID | TicketNo | Name | ContactNo | Age | Sex | Address |
+-----+-----+-----+-----+-----+-----+-----+
| P101        | T1004    | Shyam | 9978828787 | 22 | M | Warner's Colony |
| P102        | T1005    | Jaya | 9979828787 | 32 | F | Hitler's Colony |
| P103        | T1006    | Ravi | 9979828007 | 39 | M | Kishan's Colony |
| P104        | T1001    | Nikki | 8767827387 | 19 | F | Banker's Colony |
| P105        | T1002    | Nikhil | 7678827387 | 29 | M | Baker's Colony |
| P106        | T1003    | Mamakutty | 7678828787 | 26 | F | Tailor's Colony |
| P107        | T101     | Abhi | 9123423421 | 12 | M | Gnan marg |
| P108        | T101     | Abhishek | 9123423401 | 22 | M | Gnan marg |
+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.00 sec)
```

```
mysql> SELECT * FROM RESERVATION;..
+-----+-----+-----+-----+-----+-----+-----+
| PNRNo | DOJ | NoofSeats | Address | ContactNo | BusNo | SeatNo |
+-----+-----+-----+-----+-----+-----+-----+
| PNR22001 | 2022-12-05 | 24 | Market Street | 9999911112 | B105 | 13 |
| PNR22002 | 2022-12-09 | 34 | Fish Market Street | 9889911112 | B104 | 33 |
| PNR22003 | 2022-11-09 | 14 | Fisher Street | 9889900112 | B101 | 43 |
| PNR22004 | 2022-11-19 | 18 | Fisherman Street | 9089900112 | B102 | 3 |
| PNR22005 | 2022-11-29 | 20 | Washerman Street | 9089900166 | B106 | 30 |
| PNR22006 | 2022-11-21 | 30 | Washington Street | 9077900166 | B103 | 33 |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

## Question C:-

```
mysql> select PNRNO,NoofSeats from reservation
-> where DOJ = "2022-12-05";
+-----+-----+
| PNRNO   | NoofSeats |
+-----+-----+
| PNR22001 |         24 |
+-----+-----+
1 row in set (0.01 sec)
```

## Question D:-

```
mysql> create view CancelTickets as
-> select TicketNo,PNRNo from bus natural join ticket natural join reservation;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from CancelTickets;
Empty set (0.01 sec)
```

## Question E:-

```
mysql> select count( PassengerId ),DOJ from passenger natural join ticket as t1
-> group by doj
-> having t1.source = t2.source and t1.destination = t2.destination
-> ;
+-----+-----+
| count( PassengerId ) | DOJ           |
+-----+-----+
| 2 | 2022-11-28 |
| 1 | 2022-11-18 |
| 1 | 2022-10-18 |
| 1 | 2022-11-25 |
| 1 | 2022-12-28 |
+-----+-----+
5 rows in set (0.01 sec)
```

## Question F:-

```
mysql> select * from passenger
-> order by name
-> set p1.name = name1 and p2.name = name2 if p1.name = p2.name
-> ;
```

PassengerID	TicketNo	Name	ContactNo	Age	Sex	Address
P102	T1005	Jaya	9979828787	32	F	Hitler's Colony
P106	T1003	Mamakutty	7678828787	26	F	Tailor's Colony
P105	T1002	Nikhil	7678827387	29	M	Baker's Colony
P104	T1001	Nikki	8767827387	19	F	Banker's Colony
P103	T1006	Ravi	9979828007	39	M	Kishan's Colony
P101	T1004	Shyam	9978828787	22	M	Warner's Colony

6 rows in set (0.00 sec)

## Question G:-

```
mysql> delimiter ..
mysql> create procedure q7(in pid varchar(20))
-> begin
-> select * from passenger natural join ticket
-> where passengerid = pid;
-> end..
Query OK, 0 rows affected (0.03 sec)

mysql> call q7("P102");
-> ..
```

TicketNo	ContactNo	Address	PassengerID	Name	Age	Sex	DOB	BusNo	SeatNo	Source	Destination
T1005	9979828787	Hitler's Colony	P102	Jaya	32	F	2022-11-18	B103	35	Chennai	Sricity

1 row in set (0.01 sec)

## Question H:-

```
mysql> create trigger q8 after insert on passenger for each row
-> begin
-> declare noofpassengers int;
-> select count(*) into noofpassengers from passenger;
-> end..
Query OK, 0 rows affected (0.01 sec)

mysql> insert into passenger values("P108","T101","Abhishek","9123423401",22,"M","Gnan marg");
-> ..
Query OK, 1 row affected (0.01 sec)

mysql> select q8 from passenger;..
+----+
| q8 |
+----+
| 8 |
+----+
1 row in set (0.01 sec)
```

←THE END→