```
CREATE TABLE BusCompany (
Cid INT PRIMARY KEY,
Cname VARCHAR2(20) UNIQUE,
Caddress VARCHAR2(20)
);
CREATE TABLE Bus (
 Bid INT PRIMARY KEY,
 Bno VARCHAR2(20) NOT NULL,
 Capacity INT NOT NULL,
 Cid INT NOT NULL,
 FOREIGN KEY (Cid) REFERENCES BusCompany(Cid)
);
CREATE TABLE Ticket (
Tid INT PRIMARY KEY,
 Destination VARCHAR2(20) NOT NULL,
 ArrivalTime DATE NOT NULL,
 DepartureTime DATE NOT NULL,
 Bid INT NOT NULL,
 FOREIGN KEY (Bid) REFERENCES Bus(Bid)
);
CREATE TABLE Passenger (
 Pname VARCHAR2(20) NOT NULL,
 Pid INT PRIMARY KEY,
 Psex VARCHAR2(20) CHECK (Psex IN ('Male', 'Female', 'Other')),
 P_age INT NOT NULL,
Tid INT NOT NULL,
 FOREIGN KEY (Tid) REFERENCES Ticket(Tid)
);
```

```
CREATE TABLE DRIVER
(
Did INT PRIMARY KEY,
Cid INT,
Dname VARCHAR(20) NOT NULL,
Dage INT NOT NULL,
Dsalary INT NOT NULL,
Dsex VARCHAR(20)CHECK (Dsex IN ('Male', 'Female', 'Other')),
licence_no INT UNIQUE,
FOREIGN KEY (Cid) REFERENCES BusCompany(Cid)
);
CREATE TABLE Staff
Sid INT PRIMARY KEY,
Cid INT,
Sname VARCHAR(20) NOT NULL,
Sage INT NOT NULL,
Ssalary INT NOT NULL,
Ssex VARCHAR(20) CHECK (Ssex IN ('Male', 'Female', 'Other')),
POST VARCHAR(20) NOT NULL,
FOREIGN KEY (Cid) REFERENCES BusCompany(Cid)
);
CREATE TABLE BusCompany_Email (
Cid INT,
 Email VARCHAR2(20) NOT NULL,
 FOREIGN KEY (Cid) REFERENCES BusCompany(Cid)
);
```

```
CREATE TABLE Passenger_Phone
(
 Pid INT,
 Pphone INT NOT NULL,
 FOREIGN KEY (Pid) REFERENCES Passenger(Pid)
)
CREATE TABLE DRIVER_PHONE
(
Cid INT,
Dphone INT,
FOREIGN KEY (Cid) REFERENCES BusCompany(Cid)
);
CREATE TABLE STAFF_PHONE
(
Cid INT,
Sphone INT,
FOREIGN KEY (Cid) REFERENCES BusCompany(Cid)
);
desc BusCompany;
desc Bus;
desc Ticket;
desc Passenger;
desc Driver;
desc Staff;
desc BusCompany_Email;
desc Passenger_Phone;
desc DRIVER_PHONE;
desc STAFF_PHONE;
```

| bject Type TAB | LE Object BUS | COMPANY   |        |           |       |             |          |         |         |
|----------------|---------------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| Table          | Column        | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| BUSCOMPANY     | CID           | NUMBER    | 22     | -         | 0     | 10          | ÷        | 12/1    | S       |
|                | CNAME         | VARCHAR2  | 20     |           | 21    | 2           | /        | 221     | 2       |
|                | CADDRESS      | VARCHAR2  | 20     |           | -     |             | /        |         |         |

Results Explain Describe Saved SQL History

Object Type TABLE Object BUS

| Table      | Column   | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|------------|----------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| <u>BUS</u> | BID      | NUMBER    | 22     | -         | 0     | 1           | -        | -       | -       |
|            | BNO      | VARCHAR2  | 20     | -         | -     | -           | -        | -       | -       |
|            | CAPACITY | NUMBER    | 22     | -         | 0     | -           | -        | -       | -       |
|            | CID      | NUMBER    | 22     | -         | 0     | -           | -        | -       | -       |
|            |          |           |        |           |       |             |          | 1       | - 4     |

Results Explain Describe Saved SQL History

| Object Type | TABLE Object       | TICKET         |        |           |       |             |          |         |         |
|-------------|--------------------|----------------|--------|-----------|-------|-------------|----------|---------|---------|
| Table       | Column             | Data Type      | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| TICKET      | TID                | NUMBER         | 22     | -         | 0     | 1           | -        | -       | -       |
|             | DESTINATION        | VARCHAR2       | 20     | -         | -     | -           | -        | -       | -       |
|             | <u>ARRIVALTIME</u> | DATE           | 7      | -         | -     | -           | -        | -       | -       |
|             | DEPARTURETIM       | <u>IE</u> DATE | 7      | -         | -     | -           | -        | -       | -       |
|             | BID                | NUMBER         | 22     | -         | 0     | -           | -        | -       | -       |
|             |                    |                |        |           |       |             |          | 1       | - 5     |

Results Explain Describe Saved SQL History Object Type TABLE Object PASSENGER Column Data Type Length Precision Scale Primary Key Nullable Default Comment PASSENGER PNAME VARCHAR2 20 PID NUMBER 0 **PSEX** VARCHAR2 20 P\_AGE NUMBER 22 0 NUMBER 22 0 TID 1 - 5

| Object Type | TABLE Object | DRIVER    |        |           |       |             |          |         |         |
|-------------|--------------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| Table       | Column       | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| DRIVER      | DID          | NUMBER    | 22     | -         | 0     | 1           | -        | -       | -       |
|             | CID          | NUMBER    | 22     | -         | 0     | -           | ~        | -       | -       |
|             | <u>DNAME</u> | VARCHAR2  | 20     | -         | -     | -           | -        | -       | -       |
|             | DAGE         | NUMBER    | 22     | -         | 0     | -           | -        | -       | -       |
|             | DSALARY      | NUMBER    | 22     | -         | 0     | -           | -        | -       | -       |
|             | DSEX         | VARCHAR2  | 20     | -         | -     | -           | ~        | -       | -       |
|             | LICENCE_NO   | NUMBER    | 22     | -         | 0     | -           | ~        | -       | -       |
|             |              |           |        |           |       |             |          | 1       | - 7     |

| Object Typ | oe TABLE O     | bject <b>STAFF</b> |        |           |       |             |          |         |         |
|------------|----------------|--------------------|--------|-----------|-------|-------------|----------|---------|---------|
| Table      | Column         | Data Type          | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| STAFF      | SID            | NUMBER             | 22     | -         | 0     | 1           | -        | -       | -       |
|            | CID            | NUMBER             | 22     | -         | 0     | -           | ~        | -       | -       |
|            | <u>SNAME</u>   | VARCHAR2           | 20     | -         | -     | -           | -        | -       | -       |
|            | SAGE           | NUMBER             | 22     | -         | 0     | -           | -        | -       | -       |
|            | <u>SSALARY</u> | NUMBER             | 22     | -         | 0     | -           | -        | -       | -       |
|            | SSEX           | VARCHAR2           | 20     | -         | -     | -           | ~        | -       | -       |
|            | POST           | VARCHAR2           | 20     | -         | -     | -           | -        | -       | -       |
|            |                |                    |        |           |       |             |          | 1       | - 7     |

| Table            | Golumn | Data Type | Length | Precision | Scale | Primary Key | Nullabie | Default | Comment |
|------------------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| BUSCOMPANY_EMAIL | CID    | NUMBER    | 22     | 3         | 0     |             | /        | *       | æ       |
|                  | EMAIL  | VARCHAR2  | 20     | 3         |       | 14          | -        | 4.1     | 13      |

## Object Type TABLE Object PASSENGER\_PHONE

| Table           | Column | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|-----------------|--------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| PASSENGER_PHONE | PID    | NUMBER    | 22     | 5         | 0     | -           | /        |         |         |
|                 | PPHONE | NUMBER    | 22     | +         | 0     |             |          |         |         |
|                 |        |           |        |           |       |             |          | - 1     | - 2     |

| Object Type TABLE Object DRIVER_PHONE | Object Type | TABLE Object | DRIVER_PHONE |  |
|---------------------------------------|-------------|--------------|--------------|--|
|---------------------------------------|-------------|--------------|--------------|--|

| Table        | Column        | Data Type | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
|--------------|---------------|-----------|--------|-----------|-------|-------------|----------|---------|---------|
| DRIVER_PHONE | CID           | NUMBER    | 22     | -         | 0     | -           | ~        | -       | -       |
|              | <u>DPHONE</u> | NUMBER    | 22     | -         | 0     | -           | ~        | -       | -       |
|              |               |           |        |           |       |             |          | 1       | - 2     |

| Object Type TABL | .E Object S   | TAFF_PHONE |        |           |       |             |          |         |         |
|------------------|---------------|------------|--------|-----------|-------|-------------|----------|---------|---------|
| Table            | Column        | Data Type  | Length | Precision | Scale | Primary Key | Nullable | Default | Comment |
| STAFF_PHONE      | CID           | NUMBER     | 22     | -         | 0     | -           | ~        | -       | -       |
|                  | <u>SPHONE</u> | NUMBER     | 22     | -         | 0     | -           | ~        | -       | -       |
|                  |               |            |        |           |       |             |          | 1       | - 2     |