

```
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;
```


Object Type **TABLE** Object **DRIVER**

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

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Object Type **TABLE** Object **STAFF**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
STAFF	SID	NUMBER	22	-	0	1	-	-	-
	CID	NUMBER	22	-	0	-	✓	-	-
	SNAME	VARCHAR2	20	-	-	-	-	-	-
	SAGE	NUMBER	22	-	0	-	-	-	-
	SSALARY	NUMBER	22	-	0	-	-	-	-
	SSEX	VARCHAR2	20	-	-	-	✓	-	-
	POST	VARCHAR2	20	-	-	-	-	-	-
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Object Type **TABLE** Object **BUSCOMPANY_EMAIL**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BUSCOMPANY_EMAIL	CID	NUMBER	22	-	0	-	✓	-	-
	EMAIL	VARCHAR2	20	-	-	-	-	-	-

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Object Type **TABLE** Object **PASSENGER_PHONE**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
PASSENGER_PHONE	PID	NUMBER	22	-	0	-	✓	-	-
	PPHONE	NUMBER	22	-	0	-	-	-	-

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Object Type **TABLE** Object **DRIVER_PHONE**

[illegible]

Object Type **TABLE** Object **STAFF_PHONE**

[illegible]