

DDL Commands

```
Create Table Rate(  
    RateID numeric(4) DEFAULT 1000,  
    LowWeight numeric CHECK (LowWeight>0),  
    UpWeight numeric CHECK (UpWeight>0),  
    RatePrice numeric CHECK (RatePrice>0),  
    CONSTRAINT CHK_rate1 CHECK (LowWeight<=UpWeight),  
    CONSTRAINT CHK_rate2 CHECK (UpWeight>LowWeight),  
    CONSTRAINT pk_rate PRIMARY KEY (RateID)  
);
```

```
Create Table Tracking(  
    TracID numeric(4) DEFAULT 5000,  
    TravelDate Date NOT NULL,  
    DeliveryDate Date,  
    Status varchar2(15) CHECK (Status IN('Delivered','Not Delivered')),  
    CONSTRAINT PK_1 PRIMARY KEY (TracID)  
);
```

```
Create Table TrackingHistory(  
    TracID numeric(4) DEFAULT 5000,  
    TracSno numeric UNIQUE,  
    CurrStatus varchar2(30),  
    CurrLocation varchar2(15),  
    TracDate Date,  
    CONSTRAINT PK_2 PRIMARY KEY (TracID, TracSno)  
);
```

```
Create Table Insurance(  
    InsID numeric(3) DEFAULT 100,  
    InsType varchar2(15) NOT NULL,  
    InsPrice numeric(5) NOT NULL,  
    Constraint PK_3 PRIMARY KEY (InsID)  
);
```

```
Create Table Stamp(  
    StampID numeric(3) DEFAULT 100,  
    StampType varchar2(20) NOT NULL,  
    StampPrice numeric(5) NOT NULL,  
    CONSTRAINT PK_4 PRIMARY KEY (StampID)  
);
```

```
Create Table Parcel(  
    ParID numeric(4) DEFAULT 1000,  
    ParType varchar2(20) CHECK (ParType IN ('Letters','Parcel','Post  
Card','Small Packet','Domestic Parcels')),  
    ParWeight numeric(5) CHECK(ParWeight> 0),  
    RateID numeric(4) DEFAULT 1000,  
    StampID numeric(3) DEFAULT 100,  
    TracID numeric(4) DEFAULT 5000,  
    InsID numeric(3) DEFAULT 100,  
    CONSTRAINT PK_5 PRIMARY KEY (ParID),  
    CONSTRAINT FKins FOREIGN KEY (InsID) REFERENCES  
Insurance (InsID),  
    CONSTRAINT FK1 FOREIGN KEY (RateID) REFERENCES Rate  
(RateID),  
    CONSTRAINT FK2 FOREIGN KEY (TracID) REFERENCES Tracking  
(TracID),  
    CONSTRAINT FK3 FOREIGN KEY (StampID) REFERENCES Stamp  
(StampID)  
);
```

```
Create Table Employee(  
    EmpID numeric(4) DEFAULT 1999,  
    Empname varchar2(15),  
    EmpGender varchar2(1) CHECK (EmpGender IN ('M','F')),  
    EmpAddress varchar2(20),  
    EmpPh# varchar2(12),  
    EmpMgrID numeric(4),
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    EmpEmail varchar2(30),
    EmpCNIC varchar2(15) UNIQUE NOT NULL,
    EmpDOB Date,
    JobTitle varchar2(10) CHECK (JobTitle IN
('PostBoy','Manager','Officer')),
    CONSTRAINT PK_6 PRIMARY KEY (EmpID)
);

```

```

Create Table Sender(
    SendID numeric(4) DEFAULT 1900,
    SendName varchar2(20) NOT NULL,
    SendAddress varchar2(20),
    SendPh# varchar2(12) NOT NULL,
    SendGender varchar2(1) CHECK (SendGender IN ( 'M','F')),
    SendCNIC varchar2(15) UNIQUE NOT NULL,
    SendEmail varchar2(20),
    CONSTRAINT PK_7 PRIMARY KEY (SendID)
);

```

```

Create Table Invoice(
    InvID numeric(5) DEFAULT 100,
    InvDate Date default sysdate,
    ParID numeric(4) DEFAULT 1000,
    TracID numeric(4) DEFAULT 5000,
    SendID numeric(4) DEFAULT 1900,
    EmpID numeric DEFAULT 1999,
    RecName varchar2(20),
    RecAddress varchar2(20) NOT NULL,
    RecPh# varchar2(12) NOT NULL,
    Service varchar2(10) CHECK (Service IN
('Urgent','One-Day','Same-Day','Return')),
    TotalPrice numeric,
    Branch# numeric(3) DEFAULT 800,
    CONSTRAINT PK_8 PRIMARY KEY (InvId),

```

```
        CONSTRAINT FKtrac FOREIGN KEY (TracID) REFERENCES  
Tracking (TracID),  
        CONSTRAINT FKsend FOREIGN KEY (SendID) REFERENCES  
Sender (SendID),  
        CONSTRAINT FKparcel FOREIGN KEY (ParID) REFERENCES  
Parcel (ParID),  
        CONSTRAINT FKemp FOREIGN KEY (EmpID) REFERENCES  
Employee (EmpID)  
);
```

```
Create Table PostOffice(  
    Branch# numeric(3) DEFAULT 800,  
    GpoBranch# varchar2(5),  
    BranchName varchar2(20) NOT NULL,  
    POType varchar2(15) CHECK (POType IN ('GPO','Post office')),  
    Location varchar2(15),  
    CONSTRAINT PK_9 PRIMARY KEY (Branch#)  
);
```