TEJ COURIER SERVICE SQL DDL

```sql
1   CREATE SCHEMA TejCourierService;
2   SET search_path TO TejCourierService;
3   CREATE TABLE COURIER (
4       C_ID VARCHAR(10) PRIMARY KEY,
5       C_Name VARCHAR(30) NOT NULL,
6       C_DISPATCH_DATE DATE,
7       C_STATUS CHAR(10),
8       C_DELIVERY_DATE DATE,
9       S_ID VARCHAR(10),
10      RATE_ID VARCHAR(10),
11      P_ID VARCHAR(10) ,
12      B_ID VARCHAR(10),
13      T_ID VARCHAR(10),
14      R_ID VARCHAR(10),
15      E_ID VARCHAR(10)
16  );
```

```sql
18  CREATE TABLE BRANCH (
19      B_ID VARCHAR(10) PRIMARY KEY,
20      B_NAME VARCHAR(30) NOT NULL,
21      B_ADDRESS VARCHAR(50),
22      B_CONTACT INTEGER
23  );
```

```sql
25  CREATE TABLE EMPLOYEE (
26      E_ID VARCHAR(10) PRIMARY KEY,
27      E_NAME VARCHAR(30),
28      E_DOB DATE,
29      E_CONTACT BIGINT,
30      B_ID VARCHAR(10),
31      FOREIGN KEY (B_ID) REFERENCES BRANCH(B_ID) ON DELETE CASCADE ON UPDATE
32  CASCADE,
33      E_GENDER CHAR(1) CHECK (E_GENDER IN('M','F','O'))
34  );
35
```

```sql
36  CREATE TABLE SENDER (
37      S_ID VARCHAR(10) PRIMARY KEY,
38      FIRST_NAME VARCHAR(30),
39      LAST_NAME VARCHAR (30),
40      S_AREA VARCHAR(30),
41      S_CITY VARCHAR(30),
42      S_STATE VARCHAR(30),
43      B_ID VARCHAR(10)
44  );
```

```sql
46  CREATE TABLE RECEIVER (
47      R_ID VARCHAR(10) PRIMARY KEY,
48      FIRST_NAME VARCHAR(30),
49      LAST_NAME VARCHAR (30),
50      R_AREA VARCHAR(30),
51      R_CITY VARCHAR(30),
52      R_STATE VARCHAR(30)
53  );
54
```

```sql
54
55   CREATE TABLE SENDTO(
56        S_ID VARCHAR(10),
57        FOREIGN KEY (S_ID) REFERENCES SENDER(S_ID) ON DELETE CASCADE ON UPDATE
58   CASCADE,
59        R_ID VARCHAR(10),
60        FOREIGN KEY (R_ID) REFERENCES RECEIVER(R_ID) ON DELETE CASCADE ON
61   UPDATE CASCADE
62   );
63
64   CREATE TABLE RATE (
65        RATE_ID VARCHAR(10) PRIMARY KEY,
66        C_WEIGHT int,
67        C_DISTANCE int,
68        C_TYPE VARCHAR(20) CHECK (C_TYPE IN ('FRAGILE','NON-FRAGILE')),
69        c_RATE int
70   );

72   CREATE TABLE PAYMENT (
73        P_ID VARCHAR(10) PRIMARY KEY,
74        TX_ID VARCHAR(20),
75        P_MODE VARCHAR(10) CHECK(P_MODE IN('ONLINE','OFFLINE')),
76        P_DATE DATE,
77        P_AMOUNT int
78   );

80   CREATE TABLE DESIGNATION (
81        E_ID VARCHAR(10) NOT NULL,
82        FOREIGN KEY (E_ID) REFERENCES EMPLOYEE(E_ID) ON DELETE CASCADE ON
83   UPDATE CASCADE,
84        DESIGNATION_NAME VARCHAR(30),
85        SALARY DECIMAL(9,0)
86   );

88   CREATE TABLE DEPENDENTS(
89        E_ID VARCHAR(10) NOT NULL,
90        FOREIGN KEY (E_ID) REFERENCES EMPLOYEE(E_ID) ON DELETE CASCADE ON
91   UPDATE CASCADE,
92        DEP_NAME VARCHAR(40),
93        DEP_RELATION VARCHAR(30),
94        DEP_CONTACT BIGINT
95   );

97   CREATE TABLE RETURN (
98        E_ID VARCHAR(10),
99        FOREIGN KEY (E_ID) REFERENCES EMPLOYEE(E_ID) ON DELETE CASCADE ON
100  UPDATE CASCADE,
101       B_ID VARCHAR(10),
102       FOREIGN KEY (B_ID) REFERENCES BRANCH(B_ID) ON DELETE CASCADE ON UPDATE
103  CASCADE
104  );

106  CREATE TABLE TRANSPORT (
107       T_ID VARCHAR(10) PRIMARY KEY,
108       T_TYPE VARCHAR(20),
109       B_ID VARCHAR(10),
110       FOREIGN KEY (B_ID) REFERENCES BRANCH(B_ID) ON DELETE CASCADE ON UPDATE
111  CASCADE
112  );
```

```sql
114  ALTER TABLE COURIER
115  ADD CONSTRAINT B_ID
116  FOREIGN KEY (B_ID) REFERENCES BRANCH(B_ID) ON DELETE CASCADE ON UPDATE
117  CASCADE;
118
119  ALTER TABLE COURIER
120  ADD CONSTRAINT R_ID
121  FOREIGN KEY (R_ID) REFERENCES RECEIVER(R_ID) ON DELETE CASCADE ON UPDATE
122  CASCADE;
123
124  ALTER TABLE COURIER
125  ADD CONSTRAINT S_ID
126  FOREIGN KEY (S_ID) REFERENCES SENDER(S_ID) ON DELETE CASCADE ON UPDATE
127  CASCADE;
128
129  ALTER TABLE COURIER
130  ADD CONSTRAINT RATE_ID
131  FOREIGN KEY (RATE_ID) REFERENCES RATE(RATE_ID) ON DELETE CASCADE ON
132  UPDATE CASCADE;
133
134  ALTER TABLE COURIER
135  ADD CONSTRAINT P_ID
136  FOREIGN KEY (P_ID) REFERENCES PAYMENT(P_ID) ON DELETE CASCADE ON UPDATE
137  CASCADE;
```

```sql
139  ALTER TABLE COURIER
140  ADD CONSTRAINT T_ID
141  FOREIGN KEY (T_ID) REFERENCES TRANSPORT(T_ID) ON DELETE CASCADE ON UPDATE
142  CASCADE;
143
144  ALTER TABLE COURIER
145  ADD CONSTRAINT E_ID
146  FOREIGN KEY (E_ID) REFERENCES EMPLOYEE(E_ID) ON DELETE CASCADE ON UPDATE
147  CASCADE;
148
149  ALTER TABLE SENDER
150  ADD CONSTRAINT B_ID
151  FOREIGN KEY (B_ID) REFERENCES BRANCH(B_ID) ON DELETE CASCADE ON UPDATE
152  CASCADE;
```