

Relational Model to SQL DDL

```
CREATE SCHEMA RTO;
```

```
SET SEARCH_PATH TO RTO;
```

```
CREATE TABLE USER_DETAILS  
(  
  USER_ID CHAR(10) PRIMARY KEY,  
  FNAME VARCHAR(20) NOT NULL,  
  LNAME VARCHAR(20) NOT NULL,  
  DOB DATE,  
  MOBILE_NO NUMERIC(10),  
  EMAIL VARCHAR(30),  
  PAN_NO CHAR(10) UNIQUE NOT NULL,  
  CITY VARCHAR(50)  
);
```

```
CREATE TABLE OFFICE  
(  
  OFFICE_ID CHAR(10) PRIMARY KEY,  
  CITY VARCHAR(20),  
  PINCODE NUMERIC(6)  
);
```

```
CREATE TABLE DEPARTMENT  
(  
  DEPT_ID CHAR(10) PRIMARY KEY,  
  DEPT_NAME VARCHAR(50) CHECK (DEPT_NAME IN('PERMIT','ECHALLAN','LICENSE','VEHICLE  
REGISTRATION')),  
  OFFICE_ID CHAR(10) REFERENCES OFFICE(OFFICE_ID) ON UPDATE CASCADE ON DELETE  
RESTRICT  
);
```

```
CREATE TABLE EMPLOYEE  
(  
  EMP_ID CHAR(10) PRIMARY KEY,  
  FNAME VARCHAR(20) NOT NULL,  
  LNAME VARCHAR(20) NOT NULL,  
  DOB DATE,
```

```
MOBILE_NO NUMERIC(10),  
EMAIL VARCHAR(30),  
SALARY NUMERIC(5),  
DEPT_ID CHAR(10) REFERENCES DEPARTMENT(DEPT_ID) ON UPDATE CASCADE  
);
```

```
CREATE TABLE PAYMENT(  
TRAN_ID VARCHAR(20) PRIMARY KEY,  
AMOUNT NUMERIC(6) NOT NULL,  
PAY_DESCR VARCHAR(20),  
TIME_STAMP TIMESTAMP,  
USER_ID CHAR(10) REFERENCES USER_DETAILS(USER_ID) ON UPDATE CASCADE ON DELETE  
CASCADE,  
DEPT_ID CHAR(10) REFERENCES DEPARTMENT(DEPT_ID) ON UPDATE CASCADE ON DELETE  
CASCADE  
);
```

```
CREATE TABLE APPOINTMENT  
(  
APP_ID CHAR(9) PRIMARY KEY,  
APP_STATUS VARCHAR(10) CHECK (APP_STATUS IN ('PENDING','APPROVED','CANCELLED')),  
APP_TYPE VARCHAR(20) CHECK (APP_TYPE IN  
('LEARNERS','DRIVERS','INTERNATIONAL','PERMIT','VEHICLE REGISTRATION')),  
TIME_STAMP TIMESTAMP,  
USER_ID CHAR(10) REFERENCES USER_DETAILS(USER_ID) ON UPDATE CASCADE,  
DEPT_ID CHAR(10) REFERENCES DEPARTMENT(DEPT_ID) ON UPDATE CASCADE  
);
```

```
CREATE TABLE PERMIT  
(  
PER_ID CHAR(10) PRIMARY KEY,  
PER_TYPE VARCHAR(3) CHECK (PER_TYPE IN ('LGV','HGV')),  
VALIDITY DATE NOT NULL  
);
```

```
CREATE TABLE VEHICLE_REGISTRATION  
(  
LICENSE_PLATE_NO CHAR(10) PRIMARY KEY,  
ENGINE_NO VARCHAR(20) NOT NULL,  
CHASIS_NO CHAR(17) NOT NULL,  
VEH_TYPE VARCHAR(5) CHECK (VEH_TYPE IN ('LMV','HMV', 'TRANS')),
```

```
TIME_STAMP TIMESTAMP NOT NULL,  
PER_ID CHAR(10) REFERENCES PERMIT(PER_ID) ON UPDATE CASCADE,  
USER_ID CHAR(10) REFERENCES USER_DETAILS(USER_ID) ON UPDATE CASCADE ON DELETE  
RESTRICT  
);
```

```
CREATE TABLE ECHALLAN  
(  
E_CHALLAN_ID CHAR(10) PRIMARY KEY,  
E_CHALLAN_TYPE VARCHAR(200) NOT NULL,  
TIME_STAMP TIMESTAMP NOT NULL,  
USER_ID CHAR(10) REFERENCES USER_DETAILS(USER_ID) ON UPDATE CASCADE  
);
```

```
CREATE TABLE LICENSE_RESULT  
(  
APP_ID CHAR(9) REFERENCES APPOINTMENT(APP_ID) ON UPDATE CASCADE ON DELETE  
CASCADE,  
TEST_RESULT BOOLEAN,  
PRIMARY KEY(APP_ID,TEST_RESULT)  
);
```

```
CREATE TABLE DRIVING_LICENSE  
(  
L_ID CHAR(15) PRIMARY KEY,  
D_TYPE VARCHAR(50) CHECK (D_TYPE IN('LEARNERS','DRIVING','INTERNATIONAL')),  
ISSUE_DATE DATE NOT NULL,  
VALIDITY DATE NOT NULL,  
USER_ID CHAR(10) REFERENCES USER_DETAILS(USER_ID) ON UPDATE CASCADE ON DELETE  
RESTRICT  
);
```

```
CREATE TABLE APPOINTMENT_RESECHEDULE  
(  
APP_ID CHAR(9) REFERENCES APPOINTMENT(APP_ID) ON UPDATE CASCADE ON DELETE  
CASCADE,  
TIME_STAMP TIMESTAMP NOT NULL,  
PRIMARY KEY(APP_ID,TIME_STAMP)  
);
```