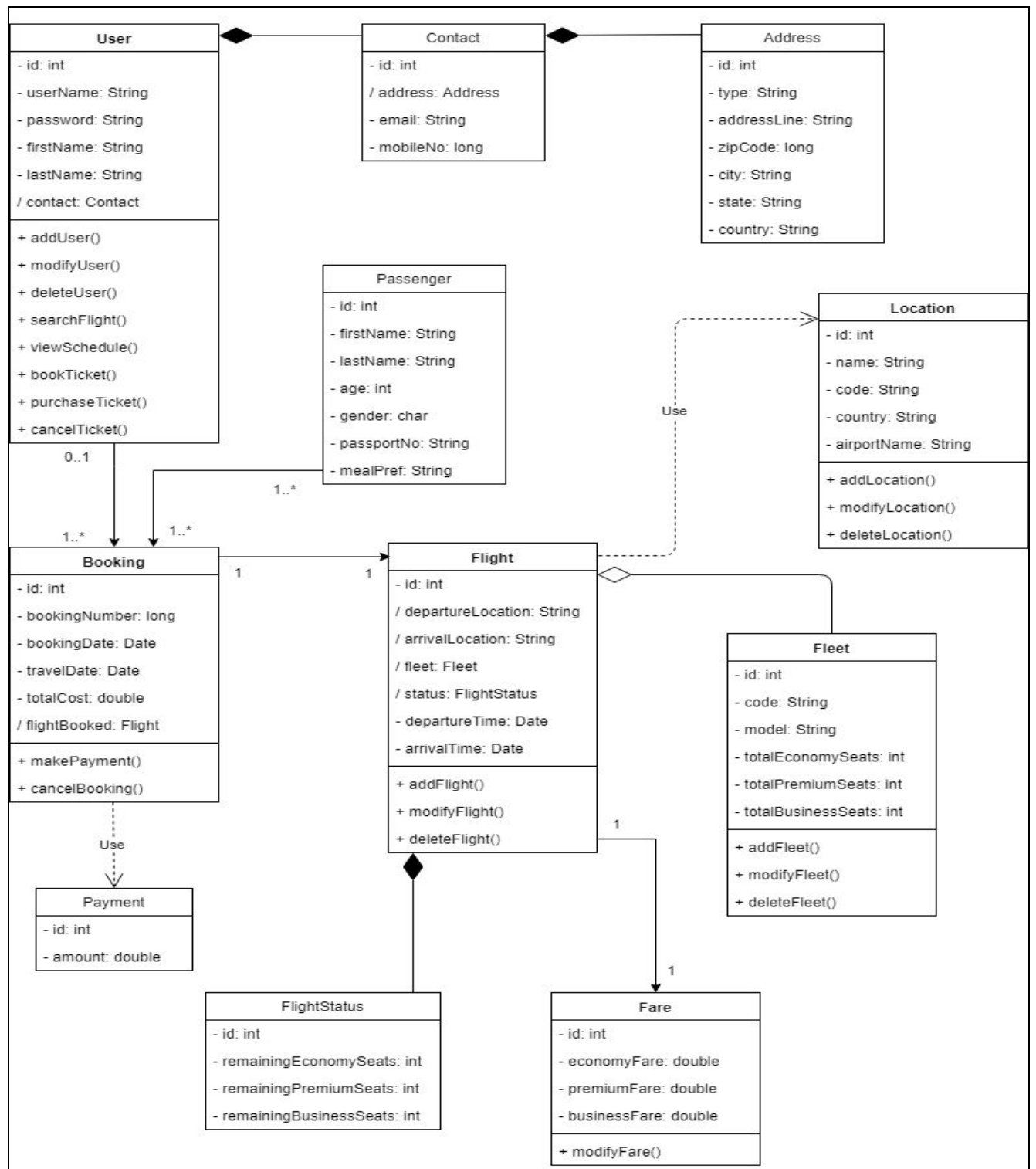
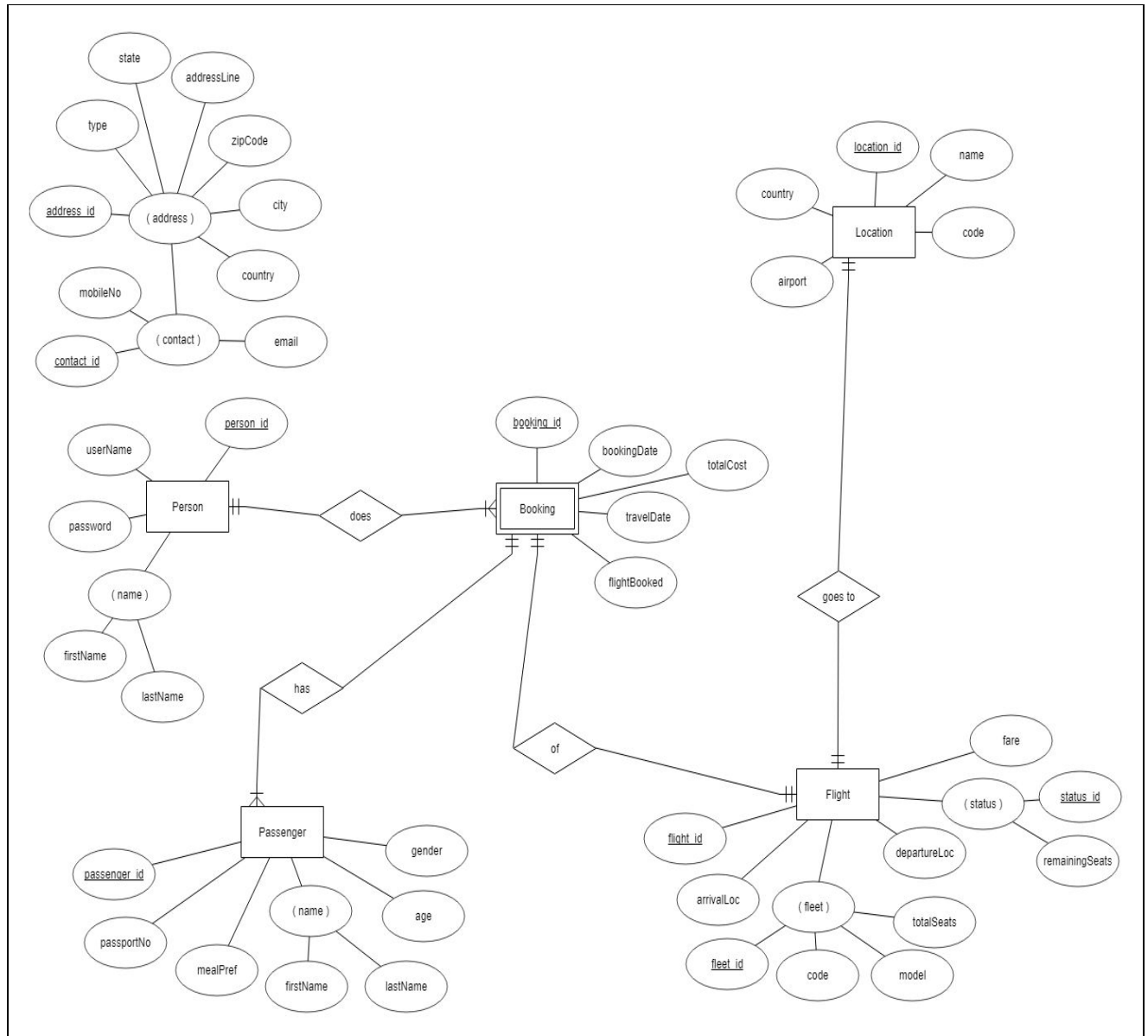


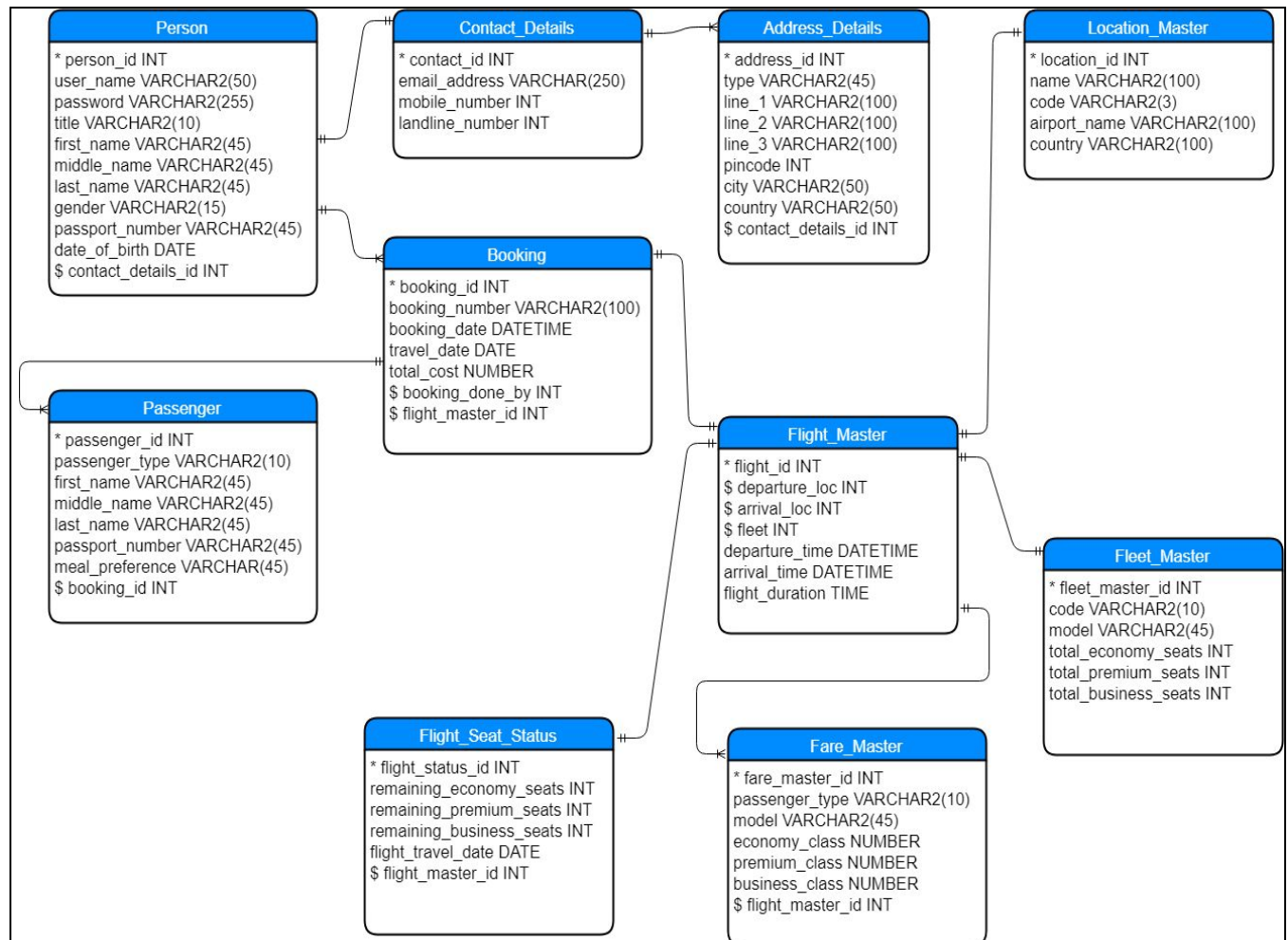
CLASS DIAGRAM



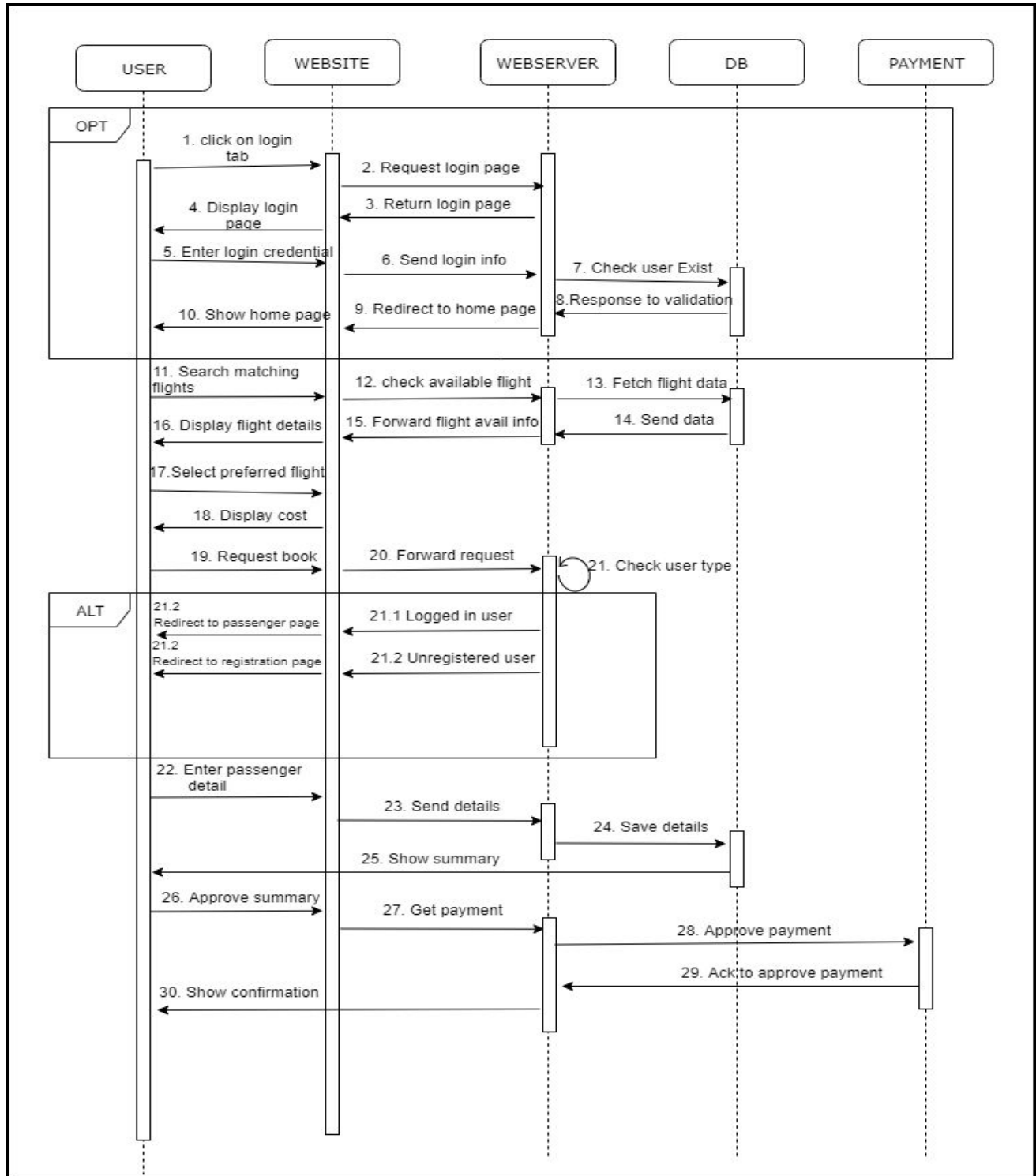
ER DIAGRAM



RELATIONAL SCHEMA



SEQUENCE DIAGRAM



SCHEMA DESIGN

```
CREATE TABLE PERSON
(
  PERSON_ID NUMBER(8) PRIMARY KEY,
  USER_NAME VARCHAR(50) NOT NULL,
  PASSWORD VARCHAR(255) NOT NULL,
  TITLE IN ('Mr.', 'Mrs.'),
  FIRST_NAME VARCHAR(45) NOT NULL,
  MIDDLE_NAME VARCHAR(45),
  LAST_NAME VARCHAR(45) NOT NULL,
  GENDER IN ('MALE', 'FEMALE', 'TRANSGENDER'),
  PASSPORT_NUMBER VARCHAR(45) NOT NULL,
  DATE_OF_BIRTH DATE,
  CONTACT_DETAILS_ID NUMBER(8) FOREIGN KEY REFERENCES
  CONTACT_DETAILS(CONTACT_ID),
);
```

```
CREATE TABLE PASSENGER
(
  PASSENGER_ID NUMBER(8) PRIMARY KEY,
  PASSENGER_TYPE NUMBER(8) ,
  FIRST_NAME VARCHAR(45) NOT NULL,
  MIDDLE_NAME VARCHAR(45),
  LAST_NAME VARCHAR(45) NOT NULL,
  PASSPORT_NUMBER VARCHAR(45) UNIQUE,
  MEAL_PREFERENCES IN ('VEG', 'NON-VEG'),
  BOOKING_ID NUMBER(8),
  FOREIGN KEY (BOOKING_ID) REFERENCES BOOKING (BOOKING_ID)
);
```

```
CREATE TABLE BOOKING
(
BOOKING_ID NUMBER(8) PRIMARY KEY,
BOOKING_NUMBER VARCHAR(100) NOT NULL,
BOOKING_DATE DATETIME,
TRAVEL_DATE DATE,
TOTAL_COST NUMBER,
BOOKING_DONE_BY NUMBER(8) FOREIGN KEY REFERENCES PERSON(PERSON_ID),
FLIGHT_MASTER_ID NUMBER(8) FOREIGN KEY REFERENCES
FLIGHT_MASTER(FLIGHT_MASTER_ID)
);
```

```
CREATE TABLE CONTACT_DETAILS
(
CONTACT_ID NUMBER(8) PRIMARY KEY,
EMAIL_ADDRESS VARCHAR(250) NOT NULL UNIQUE,
MOBILE_NUMBER NUMBER(10) NOT NULL,
LANDLINE_NUMBER NUMBER(10)
);
```

```
CREATE TABLE ADDRESS_DETAILS
(
ADDRESS_ID NUMBER(8) PRIMARY KEY,
TYPE IN ('RESIDENTIAL','OFFICE','PERMANENT'),
LINE_1 VARCHAR2(100) NOT NULL,
LINE_2 VARCHAR2(100),
LINE_3 VARCHAR2(100),
PINCODE NUMBER(7) NOT NULL,
CITY VARCHAR2(50) NOT NULL,
COUNTRY VARCHAR2(50) NOT NULL,
CONTACT_DETAILS NUMBER(8) FOREIGN KEY REFERENCES
CONTACT_DETAILS(CONTACT_ID)
);
```

```
CREATE TABLE FLIGHT_MASTER
(
  FLIGHT_ID NUMBER(8) PRIMARY KEY,
  DEPARTURE_LOC NUMBER(8) NOT NULL,
  ARRIVAL_LOC NUMBER(8) NOT NULL,
  FLEET NUMBER(8) NOT NULL,
  DEPARTURE_TIME TIME NOT NULL,
  ARRIVAL_TIME TIME NOT NULL,
  FLIGHT_DURATION TIME NOT NULL
);
```

```
CREATE TABLE LOCATION_MASTER
(
  LOCATION_MASTER_ID NUMBER(8) PRIMARY KEY,
  NAME VARCHAR(100) NOT NULL,
  CODE VARCHAR(3) NOT NULL,
  AIRPORT_NAME VARCHAR(100) NOT NULL,
  COUNTRY VARCHAR2(100) NOT NULL
);
```

```
CREATE TABLE FLIGHT_SEAT_STATUS
(
  FLIGHT_SEAT_STATUS NUMBER(8) PRIMARY KEY,
  REMAINING_ECONOMY_SEATS NUMBER(2) DEFAULT 0,
  REMAINING_PREMIUM_SEATS NUMBER(2) DEFAULT 0,
  REMAINING_BUSINESS_SEATS NUMBER(2) DEFAULT 0,
  FLIGHT_TRAVEL_DATE DATE,
  FLIGHT_MASTER_ID NUMBER(8) FOREIGN KEY REFERENCES
  FLIGHT_MASTER(FLIGHT_ID)
);
```

```
CREATE TABLE FARE_MASTER
(
  FARE_MASTER_ID NUMBER(8) PRIMARY KEY,
  ECONOMY_CLASS NUMBER(2) DEFAULT 0,
  PREMIUM_CLASS NUMBER(2) DEFAULT 0,
  BUSINESS_CLASS NUMBER(2) DEFAULT 0,
  FLIGHT_MASTER_ID NUMBER(8) FOREIGN KEY REFERENCES
  FLIGHT_MASTER(FLIGHT_ID)
);
```

```
CREATE FLEET_MASTER
(
FLEET_MASTER_ID NUMBER(8) PRIMARY KEY,
CODE VARCHAR(10) NOT NULL,
MODEL VARCHAR(45) NOT NULL,
TOTAL_ECONOMY_SEATS NUMBER(2) DEFAULT 0,
TOTAL_PREMIUM_SEATS NUMBER(2) DEFAULT 0,
TOTAL_BUSINESS_SEATS NUMBER(2) DEFAULT
);
```