CREATION OF TABLES:

CUSTOMER

```
SQL> CREATE TABLE CUSTOMER(
  2      F_NAME          VARCHAR(8) NOT NULL,
  3      L_NAME          VARCHAR(8),
  4      PHONE_NO        INTEGER,
  5      GENDER          CHAR(1),
  6      C_ADDRESS       VARCHAR(11),
  7                      CONSTRAINT CHECK_PHONE CHECK (LENGTH(PHONE_NO)>=10 AND LENGTH(PHONE_NO)<=12),
  8                      CONSTRAINT CHECK_GENDER CHECK(GENDER in ('M', 'F', 'O')),
  9                      CONSTRAINT C_PK_1 PRIMARY KEY(PHONE_NO)
 10  );

Table created.
```

EMPLOYEE

```
SQL> CREATE TABLE EMPLOYEE(
  2      F_NAME          VARCHAR(8) NOT NULL,
  3      L_NAME          VARCHAR(8),
  4      PHONE_NO        INTEGER ,
  5      DOB             DATE,
  6      GENDER          CHAR(1) ,
  7      RATE_OF_PAY     NUMBER(4,2),
  8      E_ADDRESS       VARCHAR(11),
  9                      CONSTRAINT CHECK_PHONE_EMPLOYEE CHECK (LENGTH(PHONE_NO)>=10 AND LENGTH(PHONE_NO)<=12),
 10                      CONSTRAINT CHECK_GENDER_EMPLOYEE CHECK (GENDER in ('M', 'F', 'O')),
 11                      CONSTRAINT E_PK_1 PRIMARY KEY(PHONE_NO)
 12  );

Table created.
```

APPOINTMENT

```
SQL> CREATE TABLE APPOINTMENT(
  2      APPOINTMENT_ID      VARCHAR(8) NOT NULL,
  3      APPOINTMENT_DATE    DATE,
  4      CUSTOMER_ID         INTEGER ,
  5      SECURITY_DEPOSIT    NUMBER,
  6      SECONDARY_PAY_LEFT  NUMBER,
  7                  CONSTRAINT A_PK_1 PRIMARY KEY(APPOINTMENT_ID),
  8                  CONSTRAINT A_FK_1 FOREIGN KEY(CUSTOMER_ID) REFERENCES CUSTOMER(PHONE_NO)
  9  );

Table created.
```

SERVICES

```
SQL> CREATE TABLE SERVICES(
  2      SERVICE_ID          VARCHAR(8) NOT NULL,
  3      SERVICE_NAME        VARCHAR(12) NOT NULL,
  4      DURATION_MIN        INTEGER,
  5      SERVICE_CHARGE      NUMBER(4,2),
  6      AVAILABILITY        INTEGER,
  7      MATERIAL_ID         VARCHAR(12),
  8                  CONSTRAINT S_PK_1 PRIMARY KEY(SERVICE_ID)
  9  );

Table created.
```

MATERIAL

```
SQL> CREATE TABLE MATERIAL(
  2      MATERIAL_ID         VARCHAR(12),
  3      MATERIAL_NAME       VARCHAR(15),
  4      AVAILABILITY        INTEGER,
  5      PRICE               NUMBER(5,2),
  6      SERVICE_ID          VARCHAR(8),
  7                      CONSTRAINT M_PK_1 PRIMARY KEY(MATERIAL_ID),
  8                      CONSTRAINT M_FK_1 FOREIGN KEY(SERVICE_ID) REFERENCES SERVICES(SERVICE_ID)
  9  );

Table created.

SQL> ALTER TABLE SERVICES ADD CONSTRAINT S_FK_1 FOREIGN KEY(MATERIAL_ID) REFERENCES MATERIAL(MATERIAL_ID);

Table altered.
```

SERVICE_RENDERED

```
SQL> CREATE TABLE SERVICE_RENDERED(
  2      APPOINTMENT_ID      VARCHAR(15),
  3      SERVICE_ID          VARCHAR(8),
  4      EMPLOYEE_ID         NUMBER(12),
  5      EXTENDED_PRICE      NUMBER(5,2),
  6                      CONSTRAINT SR_FK1 FOREIGN KEY(APPOINTMENT_ID) REFERENCES APPOINTMENT(APPOINTMENT_ID),
  7                      CONSTRAINT SR_FK2 FOREIGN KEY(SERVICE_ID) REFERENCES SERVICES(SERVICE_ID),
  8                      CONSTRAINT SR_FK3 FOREIGN KEY(EMPLOYEE_ID) REFERENCES CUSTOMER(PHONE_NO),
  9                      CONSTRAINT SR_PK1 PRIMARY KEY(APPOINTMENT_ID,SERVICE_ID)
 10  );

Table created.
```

BILLINGS

```
SQL>
SQL> CREATE TABLE BILLINGS(
  2      BILL_ID                 VARCHAR(15),
  3      TOTAL_AMOUNT            NUMBER(7,2),
  4      BILL_DATE               DATE,
  5      TAX_AMOUNT              NUMBER(7,2),
  6      SELLER_AMOUNT_BALANCE   NUMBER(7,2),
  7      APPOINTMENT_ID          VARCHAR(15),
  8      EMPLOYEE_ID             NUMBER(12),
  9      DISCOUNT                NUMBER(7,2),
 10                      CONSTRAINT B_PK_1 PRIMARY KEY(BILL_ID),
 11                      CONSTRAINT B_FK_1 FOREIGN KEY(EMPLOYEE_ID) REFERENCES EMPLOYEE(PHONE_NO),
 12                      CONSTRAINT B_FK_2 FOREIGN KEY(APPOINTMENT_ID) REFERENCES APPOINTMENT(APPOINTMENT_ID)
 13  );

Table created.
```

ALL TABLES

```
SQL> SELECT * FROM TAB;

TNAME                          TABTYPE  CLUSTERID
------------------------------ -------  ----------
APPOINTMENT                    TABLE
BILLINGS                       TABLE
CUSTOMER                       TABLE
EMPLOYEE                       TABLE
MATERIAL                       TABLE
SERVICES                       TABLE
SERVICE_RENDERED               TABLE

7 rows selected.
```

ER SCHEMA

CUSTOMER

PHONE_NO	F_NAME	L_NAME	GENDER	C_ADDRESS

EMPLOYEE

PHONE_NO	F_NAME	L_NAME	DOB	GENDER	RATE_OF_PAY	E_ADDRESS

APPOINTMENT

APPOINTMENT_ID	APPOINTMENT_DATE	CUSTOMER_ID	SECURITY_DEPOSIT	SECONDARY_PAY_LEFT

SERVICES

SERVICE_ID	SERVICE_NAME	DURATION_MIN	SERVICE_CHARGES	AVAILABLITY

USES

SERVICE_ID	MATERIAL_ID

MATERIAL

MATERIAL_ID	MATERIAL_NAME	AVAILABILITY	PRICE

SERVICE_RENDERED

APPOINTMENT_ID	SERVICE_ID	EMPLOYEE_ID	EXTENDED_PRICE

BILLINGS

BILL_ID	TOTAL_AMOUNT	BILL_DATE	TAX_AMOUNT	SELLER_AMOUNT_BALANCE	APPOINTMENT_ID	EMPLOYEE_ID	DISCOUNT