

## 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

<u>PHONE_NO</u>	F_NAME	L_NAME	GENDER	C_ADDRESS
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## EMPLOYEE

<u>PHONE_NO</u>	F_NAME	L_NAME	DOB	GENDER	RATE_OF_PAY	E_ADDRESS
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## APPOINTMENT

<u>APPOINTMENT_ID</u>	APPOINTMENT_DATE	CUSTOMER_ID	SECURITY_DEPOSIT	SECONDARY_PAY_LEFT
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## SERVICES

<u>SERVICE_ID</u>	SERVICE_NAME	DURATION_MIN	SERVICE_CHARGES	AVAILABILITY	MATERIAL_ID
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## MATERIAL

<u>MATERIAL_ID</u>	MATERIAL_NAME	AVAILABILITY	PRICE	SERVICE_ID
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## SERVICE\_RENDERED

<u>APPOINTMENT_ID</u>	<u>SERVICE_ID</u>	EMPLOYEE_ID	EXTENDED_PRICE
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## BILLINGS

<u>BILL_ID</u>	TOTAL_AMOUNT	BILL_DATE	TAX_AMOUNT	SELLER_AMOUNT_BALANCE	APPOINTMENT_ID	EMPLOYEE_ID	DISCOUNT
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