

**PRACTICAL NO 1:**

```
CREATE TABLE Customer (  
    CustomerKey VARCHAR2(6) NOT NULL,  
    CustomerName VARCHAR2(10) NOT NULL,  
    CustomerCode VARCHAR2(5) NOT NULL,  
    Address VARCHAR2(10) NOT NULL,  
    ZipCode NUMBER(6) NOT NULL,  
    State VARCHAR2(10) NOT NULL,  
    RentalPlanType VARCHAR2(10) NOT NULL,  
    CONSTRAINT CUSTOMER_PK PRIMARY KEY (CustomerKey)  
);
```

```
CREATE TABLE Promotion (  
    PromotionKey VARCHAR2(6) NOT NULL,  
    PromotionCode VARCHAR2(6) NOT NULL,  
    PromotionType VARCHAR2(10) NOT NULL,  
    DiscountRate NUMBER(5) NOT NULL,  
    CONSTRAINT PROMOTION_PK PRIMARY KEY (PromotionKey)  
);
```

```
CREATE TABLE Store (  
    StoreKey VARCHAR2(5) NOT NULL,  
    StoreName VARCHAR2(10) NOT NULL,  
    StoreCode VARCHAR2(5) NOT NULL,  
    Zipcode NUMBER(6) NOT NULL,  
    Manager VARCHAR2(10) NOT NULL,  
    CONSTRAINT STORE_PK PRIMARY KEY (StoreKey)  
);
```

```
CREATE TABLE Time (  
    TimeKey VARCHAR2(5) NOT NULL,  
    Date1 VARCHAR2(10) NOT NULL,  
    DayOfMonth VARCHAR2(10) NOT NULL,  
    WeekEndFlag NUMBER(5) NOT NULL,  
    Month VARCHAR2(10) NOT NULL,  
    Quarter VARCHAR2(5) NOT NULL,  
    Year NUMBER(5) NOT NULL,  
    CONSTRAINT TIME_PK PRIMARY KEY (TimeKey)  
);
```

```
CREATE TABLE RentalItem (  
    ItemKey VARCHAR2(10) NOT NULL,  
    ItemNo NUMBER(4) NOT NULL,  
    Rating NUMBER(5) NOT NULL,  
    NewReleaseFlag NUMBER(5) NOT NULL,  
    Genre VARCHAR2(10) NOT NULL,  
    Classification VARCHAR2(10) NOT NULL,
```

## PRACTICAL NO 1

```
        subClassification VARCHAR2(10) NOT NULL,  
        Director VARCHAR2(10) NOT NULL,  
        LeadMale VARCHAR2(10) NOT NULL,  
        LeadFemale VARCHAR2(10) NOT NULL,  
        CONSTRAINT RIT_PK PRIMARY KEY (ItemKey)  
    );
```

```
CREATE TABLE RentalFacts (  
    FactKey VARCHAR2(5) NOT NULL,  
    CustomerKey VARCHAR2(6) NOT NULL,  
    PromotionKey VARCHAR2(6) NOT NULL,  
    RentalFee NUMBER(6) NOT NULL,  
    LateCharge NUMBER(6) NOT NULL,  
    StoreKey VARCHAR2(5) NOT NULL,  
    TimeKey VARCHAR2(5) NOT NULL,  
    ItemKey VARCHAR2(10) NOT NULL,  
    CONSTRAINT RFT_PK PRIMARY KEY (FactKey)  
);
```

```
ALTER TABLE RentalFacts ADD CONSTRAINT CUSTOMER_RENTALFACTS_FK  
FOREIGN KEY (CustomerKey)  
REFERENCES Customer (CustomerKey)  
NOT DEFERRABLE;
```

```
ALTER TABLE RentalFacts ADD CONSTRAINT PROMOTION_RENTALFACTS_FK  
FOREIGN KEY (PromotionKey)  
REFERENCES Promotion (PromotionKey)  
NOT DEFERRABLE;
```

```
ALTER TABLE RentalFacts ADD CONSTRAINT STORE_RENTALFACTS_FK  
FOREIGN KEY (StoreKey)  
REFERENCES Store (StoreKey)  
NOT DEFERRABLE;
```

```
ALTER TABLE RentalFacts ADD CONSTRAINT TIME_RENTALFACTS_FK  
FOREIGN KEY (TimeKey)  
REFERENCES Time (TimeKey)  
NOT DEFERRABLE;
```

```
ALTER TABLE RentalFacts ADD CONSTRAINT RENTALITEM_RENTALFACTS_FK  
FOREIGN KEY (ItemKey)  
REFERENCES RentalItem (ItemKey)  
NOT DEFERRABLE;
```

SQL> desc promotion;

Name	Null?	Type
PROMOTIONKEY		NOT NULL VARCHAR2(6)
PROMOTIONCODE		NOT NULL VARCHAR2(6)
PROMOTIONTYPE		NOT NULL VARCHAR2(10)
DISCOUNTRATE		NOT NULL NUMBER(5)

## PRACTICAL NO 1

```
INSERT INTO PROMOTION VALUES('P101','P1','BANNERS',5);
INSERT INTO PROMOTION VALUES('P102','21','ONLINE',5);
```

```
SQL> desc customer;
```

Name	Null?	Type
CUSTOMERKEY		NOT NULL VARCHAR2(6)
CUSTOMERNAME		NOT NULL VARCHAR2(10)
CUSTOMERCODE		NOT NULL VARCHAR2(5)
ADDRESS		NOT NULL VARCHAR2(10)
STATE		NOT NULL VARCHAR2(12)
ZIP		NOT NULL NUMBER(6)
RENTALPLANTYPE		NOT NULL VARCHAR2(10)

```
INSERT INTO CUSTOMER
VALUES('C101','MAHIMA','C1','SADAR','MAHARASHTRA',444444,'1YEAR');
INSERT INTO CUSTOMER
VALUES('C102','SNEHA','C2','RAJ NAGAR','MAHARASHTRA',111111,'8MONTHS');
```

```
SQL> desc store;
```

Name	Null?	Type
STOREKEY		NOT NULL VARCHAR2(5)
STORENAME		NOT NULL VARCHAR2(10)
STORECODE		NOT NULL VARCHAR2(5)
ZIPCODE		NOT NULL NUMBER(6)
MANAGER		NOT NULL VARCHAR2(10)

```
INSERT INTO STORE VALUES('S101','ELECTRONIC','S1',221144,'JOHN');
INSERT INTO STORE VALUES('S102','COMPUTER','S2',442277,'JACK');
```

```
SQL> desc rentalitem;
```

Name	Null?	Type
ITEMKEY		NOT NULL VARCHAR2(10)
ITEMNO		NOT NULL NUMBER(4)
RATING		NOT NULL NUMBER(5)
NEWRELEASEFLAG		NOT NULL NUMBER(5)
GENRE		NOT NULL VARCHAR2(10)
CLASSIFICATION		NOT NULL VARCHAR2(10)
SUBCLASSIFICATION		NOT NULL VARCHAR2(10)
DIRECTOR		NOT NULL VARCHAR2(10)
LEADMALE		NOT NULL VARCHAR2(10)
LEADFEMALE		NOT NULL VARCHAR2(10)

## PRACTICAL NO 1

```
INSERT INTO RENTALITEM
VALUES('I101',01,4,1,'GENRE1','FOOD','CHIPS','PETER','ANKIT','ANKTA');
INSERT INTO RENTALITEM
VALUES('I102',02,3,0,'GENRE2','CLOTHES','MEN','TOM','RAHUL','ANJALI');
```

SQL> DESC TIME;

Name	Null?	Type
TIMEKEY		NOT NULL VARCHAR2(5)
DATE1		NOT NULL VARCHAR2(10)
DAYOFMONTH		NOT NULL VARCHAR2(10)
WEEKENDFLAG		NOT NULL NUMBER(5)
MONTH		NOT NULL VARCHAR2(10)
QUARTER		NOT NULL VARCHAR2(5)
YEAR		NOT NULL NUMBER(5)

```
INSERT INTO TIME VALUES('T101','20-JUN-19','MONDAY',0,'JUNE','Q2',2019);
INSERT INTO TIME VALUES('T102','25-JUN-19','SATURDAY',1,'JUNE','Q2',2019);
```

SQL> DESC RENTALFACTS;

Name	Null?	Type
FACTKEY		NOT NULL VARCHAR2(5)
CUSTOMERKEY		NOT NULL VARCHAR2(6)
PROMOTIONKEY		NOT NULL VARCHAR2(6)
RENTALFEE		NOT NULL NUMBER(6)
LATECHARGE		NOT NULL NUMBER(6)
STOREKEY		NOT NULL VARCHAR2(5)
TIMEKEY		NOT NULL VARCHAR2(5)
ITEMKEY		NOT NULL VARCHAR2(10)

```
INSERT INTO RENTALFACTS VALUES('F101','C101','P101',2000,3000,'S101','T101','I101');
```

```
SQL> INSERT INTO RENTALFACTS VALUES('F104','C104','P104',3000,1000,'S104','T104','I104');
INSERT INTO RENTALFACTS VALUES('F104','C104','P104',3000,1000,'S104','T104','I104')
```

\*

ERROR at line 1:

ORA-02291: integrity constraint (MAHIMA04.RENTALITEM\_RENTALFACTS\_FK) violated - parent key not found