Franchise was related directly to RevFact instead of customer. RevFact contains merchandise sales, service purchases, and event. The data warehouse design will be more complex with a constellation schema. The design with one fact table is preferred.

CREATE TABLE Customer (

CustId INT NOT NULL,

CustType VARCHAR2(10) NOT NULL,

CustZip INT NOT NULL,

CustEmail VARCHAR2(50),

CustMemDate DATE,

CONSTRAINT CustomerPK PRIMARY KEY(CustId) );

CREATE TABLE Franchise (

FrachId INT NOT NULL,

FranchRegion VARCHAR2(20) NOT NULL,

FranchPostalCode VARCHAR2(10) NOT NULL,

FranchModelType VARCHAR2(10) NOT NULL,

CONSTRAINT FranchisePK PRIMARY KEY(FranchId) );

CREATE TABLE Item (

ItemId INT NOT NULL,

ItemType VARCHAR2(6) NOT NULL,

ItemName VARCHAR2(50) NOT NULL,

CONSTRAINT ItemPK PRIMARY KEY(ItemId) );

CREATE TABLE Calendar (

CalId INT NOT NULL,

CalDay INT NOT NULL,

CalMonth INT NOT NULL,

CalYear INT NOT NULL,

CONSTRAINT CalendarPK PRIMARY KEY(CalId) );

CREATE TABLE RevFact (

RevFactNo INT NOT NULL,

FranchId INT NOT NULL,

ItemId INT NOT NULL,

CustId INT NOT NULL,

CalId INT NOT NULL,

RevFactQty INT NOT NULL,

RevFactAmt DECIMAL(10,2) NOT NULL,

RevFactUnitPrice DECIMAL(10,2) NOT NULL,

CONSTRAINT RevFactPK PRIMARY KEY(RevFactNo) ),

CONSTRAINT RevFactUnique UNIQUE(ItemId, CustId, CalId) );