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CPSC 2221 – 02 Lab 2

1. **Query for creating tables**
2. **Create Tables Query**

DROP TABLE IF EXISTS Region;

CREATE TABLE Region(

RegionID char(1) PRIMARY KEY,

RegionName varchar(35) NOT NULL

);

DROP TABLE IF EXISTS Store;

CREATE TABLE Store(

StoreID varchar(10) PRIMARY KEY,

StoreZip char(6) NOT NULL,

RegionID char(1) NOT NULL,

FOREIGN KEY(RegionID) REFERENCES Region(RegionID)

);

DROP TABLE IF EXISTS Product;

CREATE TABLE Product(

ProductID char(3) PRIMARY KEY,

ProductName varchar(35) NOT NULL,

ProductPrice int NOT NULL,

VendorID char(2) NOT NULL,

CategoryID char(2) NOT NULL

);

DROP TABLE IF EXISTS SalesTransaction;

CREATE TABLE SalesTransaction(

TID char(4) PRIMARY KEY,

CustomerID char(7) NOT NULL,

StoreID varchar(10) NOT NULL,

TDate date

);

DROP TABLE IF EXISTS Vendor;

CREATE TABLE Vendor(

VendorID char(2) PRIMARY KEY,

VendorName varchar(35) NOT NULL

);

DROP TABLE IF EXISTS Category;

CREATE TABLE Category(

CategoryID char(2) PRIMARY KEY,

CategoryName varchar(35) NOT NULL

);

DROP TABLE IF EXISTS Customer;

CREATE TABLE Customer(

CustomerID char(7) PRIMARY KEY,

CustomerName varchar(35) NOT NULL,

CustomerZip char(6) NOT NULL

);

DROP TABLE IF EXISTS Soldvia;

CREATE TABLE Soldvia(

ProductID char(3) NOT NULL,

TID char(4) NOT NULL,

FOREIGN KEY (ProductID) REFERENCES Product(ProductID),

FOREIGN KEY (TID) REFERENCES SalesTransaction(TID),

NoOfItems int NOT NULL,

PRIMARY KEY (ProductID, TID)

);

1. **Queries adding Foreign Keys to the tables**

ALTER TABLE Product

ADD CONSTRAINT fk\_Product

FOREIGN KEY (VendorID) REFERENCES Vendor(VendorID);

ALTER TABLE Product

ADD CONSTRAINT fk\_Product2

FOREIGN KEY (CategoryID) REFERENCES Category(CategoryID);

ALTER TABLE SalesTransaction

ADD CONSTRAINT fk\_SalesTransaction

FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID);

ALTER TABLE SalesTransaction

ADD CONSTRAINT fk\_SalesTransaction2

FOREIGN KEY (StoreID) REFERENCES Store(StoreID);

Product:

FOREIGN KEY (VendorID) REFERENCES Vendor(VendorID),

FOREIGN KEY (CategoryID) REFERENCES Category(CategoryID)

SalesTransaction:

FOREIGN KEY (CustomerID) REFERENCES Customer(CustomerID),

FOREIGN KEY (StoreID) REFERENCES Store(StoreID),