Answer Sheet for Quiz #1

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#Keywords of SQL are ALL CAPITALIZE for EMPHASIS only.

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1. Creating the Product table

CREATE TABLE product (prodCode VARCHAR(6) NOT NULL PRIMARY KEY, description VARCHAR(20), unit CHAR(3) CONSTRAINT unit\_check (unit IN ('EA','PC','PKG','MTR'), unitPrice DECIMAL(10,2), date\_created DATE NOT NULL))

1.1 Creating SEQUENCE for the PC prodCode

CREATE SEQUENCE product\_sequence START WITH 0 INCREMENT BY 2 CACHE 5

1.2 Inserting data in the PRODUCT Table

INSERT INTO product VALUES('PC' || LPAD(NEXT VALUE FOR product\_sequence,4,'0'), 'Mouse','EA','200','2013-12-16')

INSERT INTO product VALUES('PC' || LPAD(NEXT VALUE FOR product\_sequence,4,'0'), 'AOC Monitor','PKG','3500','2013-12-15')

INSERT INTO product VALUES('PC' || LPAD(NEXT VALUE FOR product\_sequence,4,'0'), 'Keyboard','PC','150','2013-12-14')

INSERT INTO product VALUES('PC' || LPAD(NEXT VALUE FOR product\_sequence,4,'0'), 'Extension Cord','MTR','20','2013-12-16')

INSERT INTO product VALUES('PC' || LPAD(NEXT VALUE FOR product\_sequence,4,'0'), 'Windows 8 OS','PKG','12500','2013-12-12')

1.3 Checking if the CONSTRAINT works.

INSERT INTO product VALUES('PC' || LPAD(NEXT VALUE FOR product\_sequence,4,'0'), 'Mouse', 'EA','200',2013-12-16)

1.4 Checking the data inside the PRODUCT Table

SET SCHEMA schemaName

SELECT \* FROM product

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2. Creating Branch Table in the Database

CREATE TABLE Branch(branchCode VARHCHAR(4) NOT NULL PRIMARY KEY, branchName VARCHAR(20))

2.1 Inserting data in the BRANCH Table

INSERT INTO Branch VALUES('MAN','Manila')

INSERT INTO Branch VALUES('DAV','Davao')

INSERT INTO Branch VALUES('CEB','Cebu')

2.3 Checking the DATA inside the Branch Table

SELECT \* FROM branch

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3. Creating Transaction Table

CREATE TABLE Transaction(transNo VARCHAR(6) NOT NULL PRIMARY KEY, sales\_date DATE NOT NULL, branchCode VARCHAR(4) NOT NULL, FOREIGN KEY(branchCode) REFERENCES branch)

3.1 Creating Sequence

CREATE SEQUENCE transaction\_sequence START WITH 1 INCREMENT BY 1 CACHE 4

3.2 Insert data into the Transaction Table

INSERT INTO transaction VALUES('TR' || LPAD(NEXT VALUE FOR transaction\_sequence,4,'0'), '2013-12-16','MAN')

INSERT INTO transaction VALUES('TR' || LPAD(NEXT VALUE FOR transaction\_sequence,4,'0'), '2013-12-16','MAN')

INSERT INTO transaction VALUES('TR' || LPAD(NEXT VALUE FOR transaction\_sequence,4,'0'), '2013-12-15','DAV')

INSERT INTO transaction VALUES('TR' || LPAD(NEXT VALUE FOR transaction\_sequence,4,'0'), '2013-12-14','Cebu')

3.3 Checking the Data inside the Transaction table

SELECT \* FROM transaction

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4. Creating the table transDetails

CREATE TABLE transDetails (transNo VARCHAR(6) NOT NULL REFERENCES transaction, prodCode VARCHAR(6) NOT NULL REFERENCES product, quantity DECIMAL(10,2), PRIMARY KEY(transNo,prodCode))

4.1 Insert data in transDetails table

INSERT INTO transDetails VALUES ('TR0001','PC0002','1')

INSERT INTO transDetails VALUES ('TR0001','PC0004','2')

INSERT INTO transDetails VALUES ('TR0002','PC0000','3')

INSERT INTO transDetails VALUES ('TR0003','PC0002','2')

INSERT INTO transDetails VALUES ('TR0003','PC0006','1')

INSERT INTO transDetails VALUES ('TR0003','PC0008','2')

INSERT INTO transDetails VALUES ('TR0004','PC0004','5')

4.2 Checking the Data inside the Transaction && TransactionDetails Table

SELECT \* FROM transDetails

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