**Hands-On Assignment# 5**

1. Modify the following SQL command so that the Rep\_ID column is the PRIMARY KEY for the table and the default value of Y is assigned to the Comm column. (The Comm column indicates whether the sales representative earns commission.)

**Answer**.

CREATE TABLE store\_reps

( rep\_ID NUMBER(5) **PRIMARY KEY,**

last VARCHAR2(15),

first VARCHAR2(10),

comm CHAR(1) **DEFAULT ‘Y’**);

2. Change the STORE\_REPS table so that NULL values can’t be entered in the name columns (First and Last).

**Answer.**

**ALTER TABLE store\_reps**

**MODIFY first VARCHAR2(10) NOT NULL;**

**ALTER TABLE store\_reps**

**MODIFY last VARCHAR2(15) NOT NULL;**

3. Change the STORE\_REPS table so that only a Y or N can be entered in the Comm column.

**Answer.**

**ALTER TABLE store\_reps ADD CONSTRAINT comm\_ck CHECK (comm IN ('Y','N'));**

4. Add a column named Base\_salary with a datatype of NUMBER(7,2) to the STORE\_REPS table. Ensure that the amount entered is above zero.

**Answer.**

**ALTER TABLE store\_reps ADD base\_salary NUMBER(7,2) CHECK(base\_salary>=0);**

5. Create a table named BOOK\_STORES to include the columns listed in the following chart.

**Answer.**

**CREATE TABLE BOOK\_STORES**

**(Store\_ID NUMBER(8) PRIMARY KEY,**

**Name VARCHAR2(30) NOT NULL,**

**Contact VARCHAR2(30),**

**Rep\_ID VARCHAR2(5),**

**UNIQUE(Name));**

6. Add a constraint to make sure the Rep\_ID value entered in the BOOK\_STORES table is a valid value contained in the STORE\_REPS table. The Rep\_ID columns of both tables were initially created as different datatypes. Does this cause an error when adding the constraint? Make table modifications as needed so that you can add the required constraint.

**Answer.**

**ALTER TABLE book\_stores**

**MODIFY (rep\_ID NUMBER(5))**

**ADD CONSTRAINT rep\_ID\_fk FOREIGN KEY (rep\_ID)**

**REFERENCES store\_reps (rep\_ID);**

7. Change the constraint created in Assignment #6 so that associated rows of theBOOK\_STORES table are deleted automatically if a row in the STORE\_REPS table is deleted.

**Answer.**

**ALTER TABLE book\_stores**

**DROP CONSTRAINT rep\_ID\_fk**

**ALTER TABLE book\_stores**

**ADD CONSTRAINT rep\_ID\_fk FOREIGN KEY(rep\_ID)**

**REFERENCES store\_reps(rep\_ID) ON DELETE CASCADE;**

8. Create a table named REP\_CONTRACTS containing the columns listed in the following chart. A composite PRIMARY KEY constraint including the Rep\_ID, Store\_ID, and Quarter columns should be assigned. In addition, FOREIGN KEY constraints should be assigned to both the Rep\_ID and Store\_ID columns.

**Column Name Datatype**

Store\_ID NUMBER(8)

Name NUMBER(5)

Quarter CHAR(3)

Rep\_ID NUMBER(5)

**Answer.**

**CREATE TABLE REP\_CONTRACTS(**

**store\_ID NUMBER(8),**

**name NUMBER(5),**

**quarter CHAR(3),**

**rep\_ID NUMBER(5),**

**CONSTRAINT REP\_CONTRACTS\_PK PRIMARY KEY (store\_ID));**

9. Produce a list of information about all existing constraints on the STORE\_REPS table.

**Answer.**

**SELECT constraint\_name , constraint\_type , search\_condition, r\_constraint\_name FROM user\_constraints WHERE table\_name = 'STORE\_REPS';**

10. Issue the commands to disable and then enable the CHECK constraint on the Base\_salary column.

**Answer.**

**ALTERTABLEstore Reps Disable constraint store\_reps\_base\_salary\_ck;**

**ALTER TABLEstore\_reps enable constraint store\_reps\_base\_salary\_ck;**