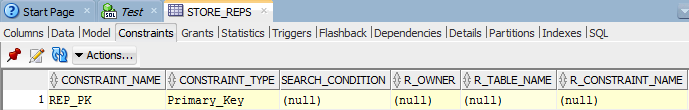
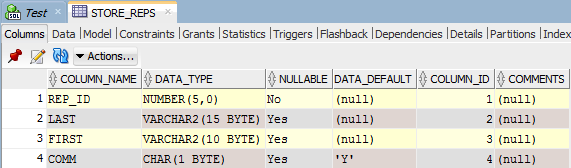
**JustLee Books has become the exclusive distributor for a number of books. The company now needs to assign sales representatives to retail bookstores to handle the new distribution duties.**

For these assignments, create new tables to support the following:  
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.)

CREATE TABLE store\_reps  
(rep\_ID NUMBER(5) CONSTRAINT rep\_pk PRIMARY KEY,  
last VARCHAR2(15),  
first VARCHAR2(10),  
comm CHAR(1) DEFAULT ‘Y’);

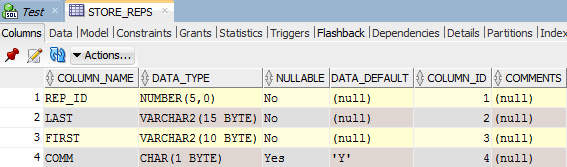
2. Change the STORE\_REPS table so that NULL values can’t be entered in the name  
columns (First and Last).

ALTER TABLE store\_reps

MODIFY (FIRST CONSTRAINT lname\_nn NOT NULL);

ALTER TABLE store\_reps

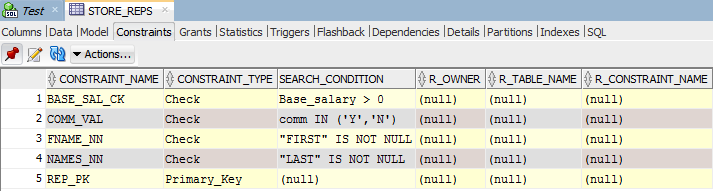
MODIFY (FIRST CONSTRAINT fname\_nn NOT NULL)



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

ALTER TABLE store\_reps

ADD CONSTRAINT comm\_val CHECK (comm IN ('Y','N'));



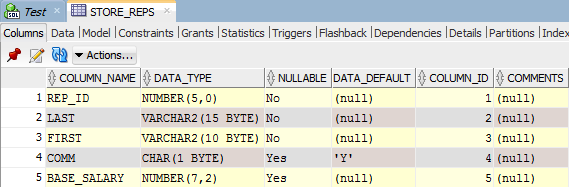
4. Add a column named Base\_salary with a datatype of NUMBER(7,2) to the STORE\_REPS table. Ensure that the amount entered is above zero.

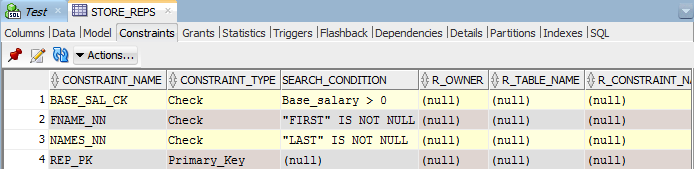
ALTER TABLE store\_reps

ADD Base\_salary NUMBER (7,2);

ALTER TABLE store\_reps

ADD CONSTRAINT base\_sal\_ck CHECK (Base\_salary > 0);





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

CREATE TABLE book\_stores

("Store\_ID" NUMBER(8) CONSTRAINT store\_pk PRIMARY KEY,

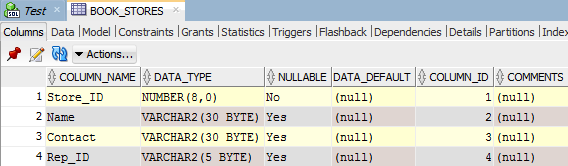
"Name" VARCHAR2(30),

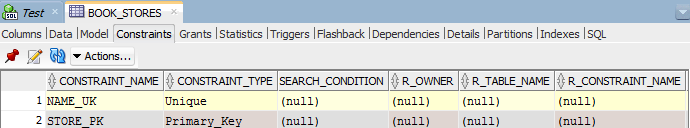
"Contact" VARCHAR2(30),

"Rep\_ID" VARCHAR2(5));

ALTER TABLE book\_stores

ADD CONSTRAINT name\_uk UNIQUE ("Contact");





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.

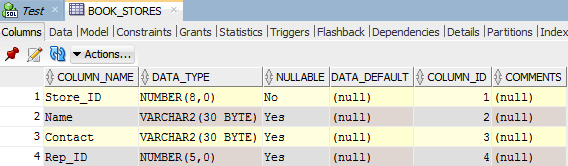
|  |  |  |
| --- | --- | --- |
| **Column Name** | **Datatype** | **Constraint Comments** |
| Store\_ID | NUMBER(8) | PRIMARY KEY column |
| Name | VARCHAR2(30) | Should be UNIQUE and NOT NULL |
| Contact | VARCHAR2(30) |  |
| Rep\_ID | VARCHAR2(5) |  |

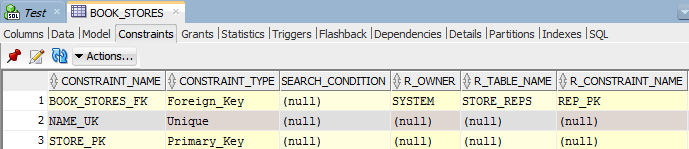
ALTER TABLE book\_stores

MODIFY ("Rep\_ID" NUMBER(5))

ADD CONSTRAINT book\_stores\_fk FOREIGN KEY ("Rep\_ID")

REFERENCES "STORE\_REPS" ("REP\_ID");





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

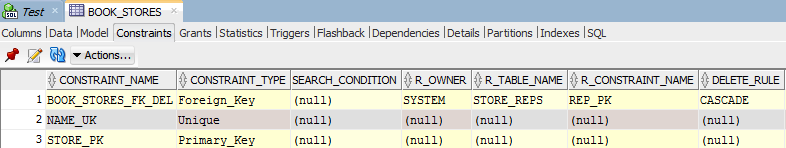
ALTER TABLE book\_stores

DROP CONSTRAINT book\_stores\_fk;

ALTER TABLE book\_stores

ADD CONSTRAINT book\_stores\_fk\_del 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) |

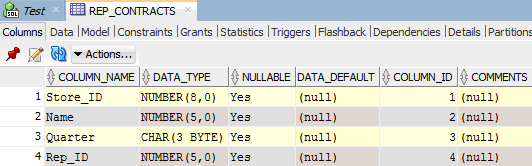
CREATE TABLE rep\_contracts

("Store\_ID" NUMBER(8),

"Name" NUMBER(5),

"Quarter" CHAR(3),

"Rep\_ID" NUMBER(5));

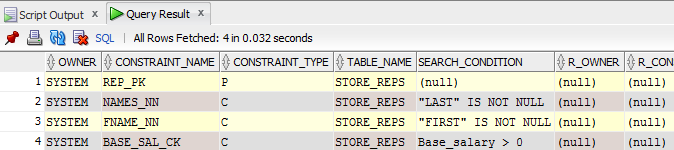


9. Produce a list of information about all existing constraints on the STORE\_REPS table.

ALTER SELECT \*

FROM user\_constraints

WHERE table\_name = 'STORE\_REPS';

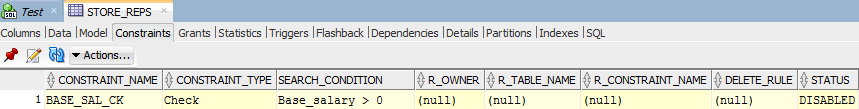


10. Issue the commands to disable and then enable the CHECK constraint on the

Base\_salary column.

ALTER TABLE store\_reps

DISABLE CONSTRAINT BASE\_SAL\_CK;



ALTER TABLE store\_reps

ENABLE CONSTRAINT BASE\_SAL\_CK;

