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.)
   1. Original code

CREATE TABLE store\_reps

(rep\_ID NUMBER(5),

last VARCHAR2(15),

first VARCHAR2(10),

comm CHAR(1));

* 1. Modification
     1. Script

CREATE TABLE store\_reps

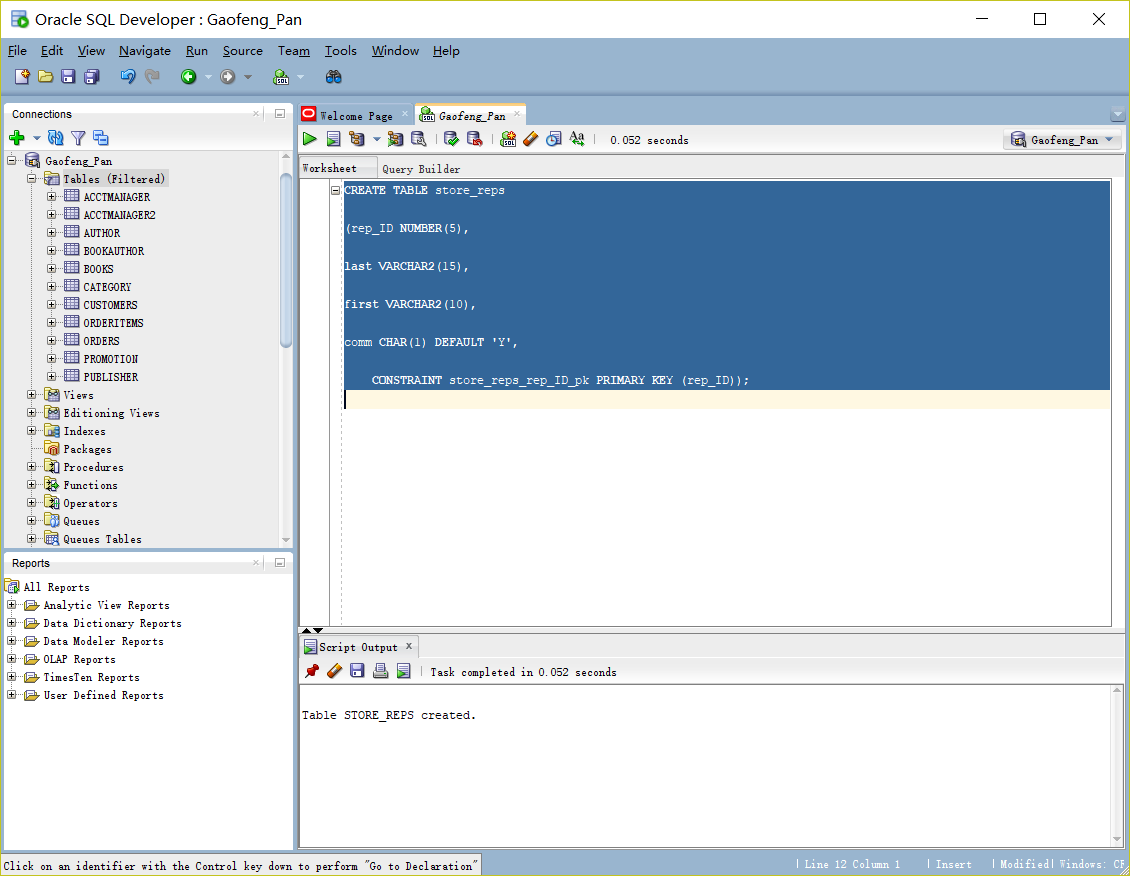
(rep\_ID NUMBER(5),

last VARCHAR2(15),

first VARCHAR2(10),

comm CHAR(1) DEFAULT 'Y',

CONSTRAINT store\_reps\_rep\_ID\_pk PRIMARY KEY (rep\_ID));



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

ALTER TABLE store\_reps

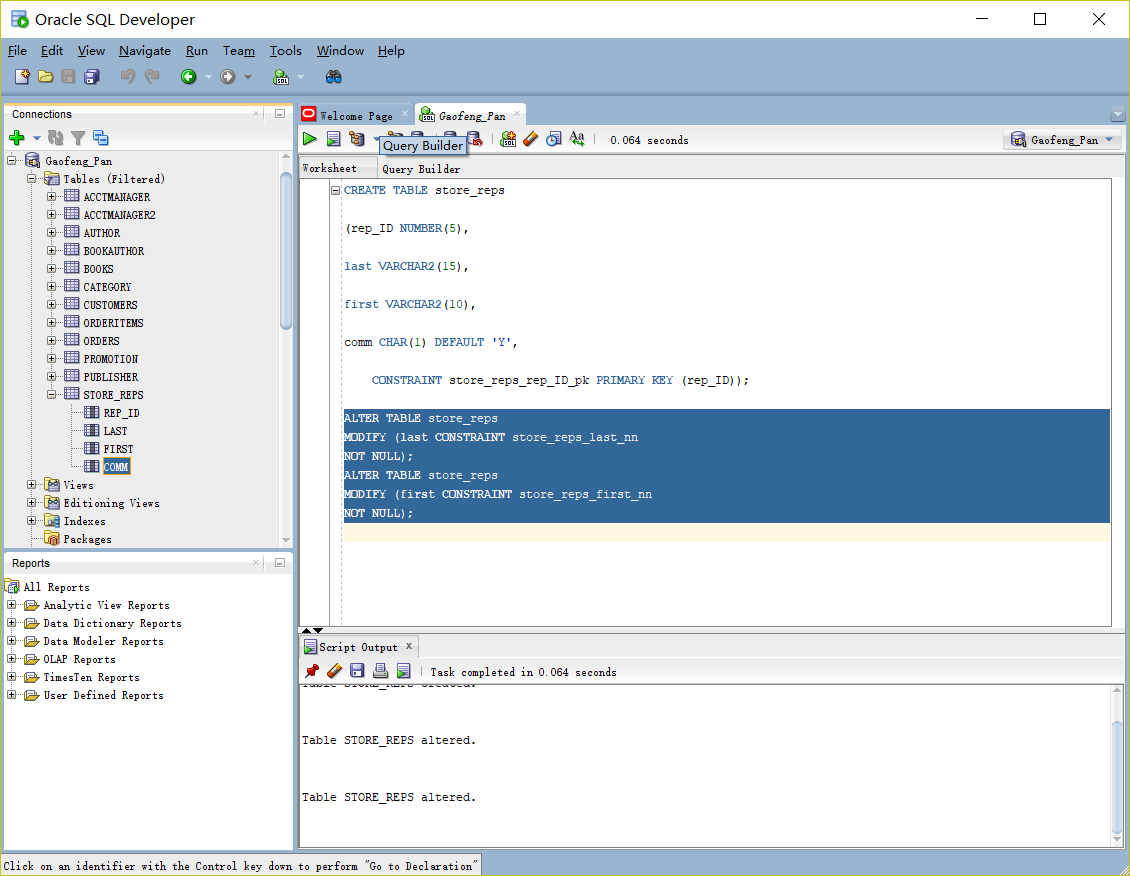
MODIFY (last CONSTRAINT store\_reps\_last\_nn

NOT NULL);

ALTER TABLE store\_reps

MODIFY (first CONSTRAINT store\_reps\_first\_nn

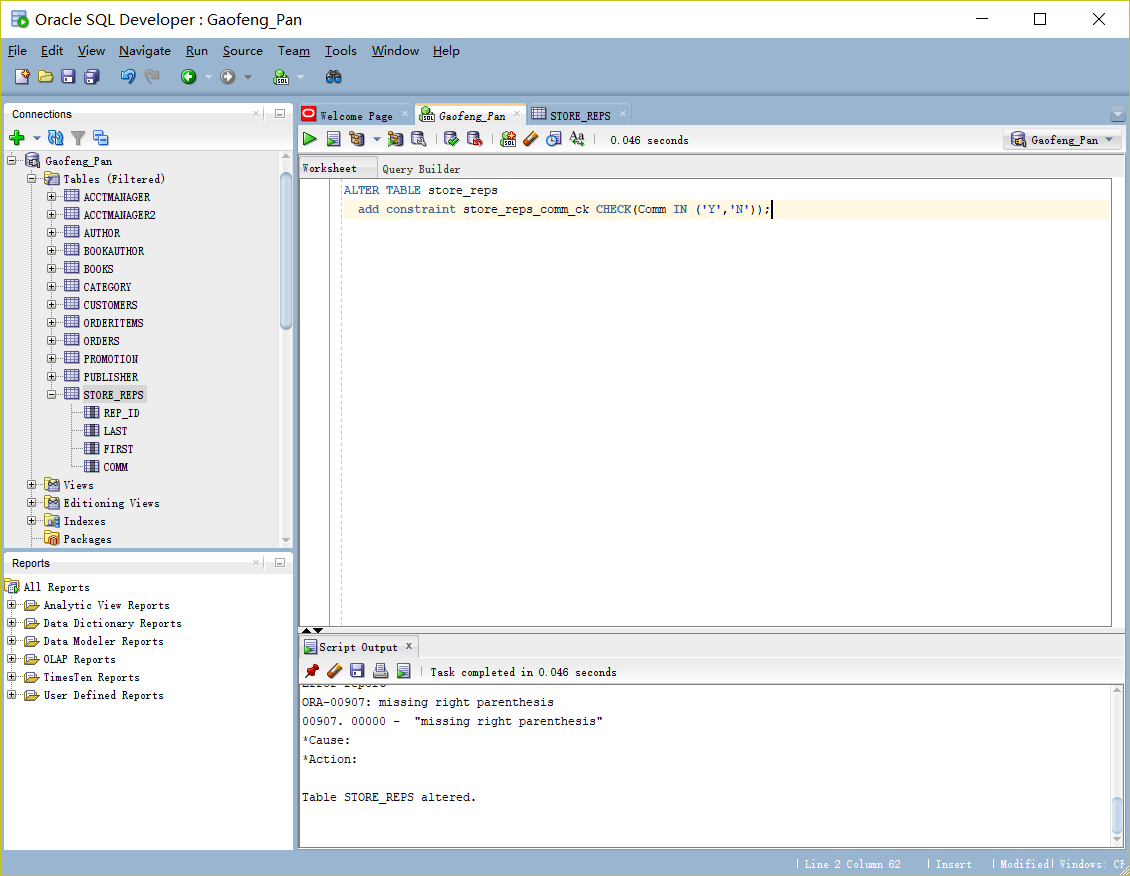
NOT NULL);



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

ALTER TABLE store\_reps

add constraint store\_reps\_comm\_ck CHECK(Comm IN ('Y','N'));

* 1. Screenshot
     1. 

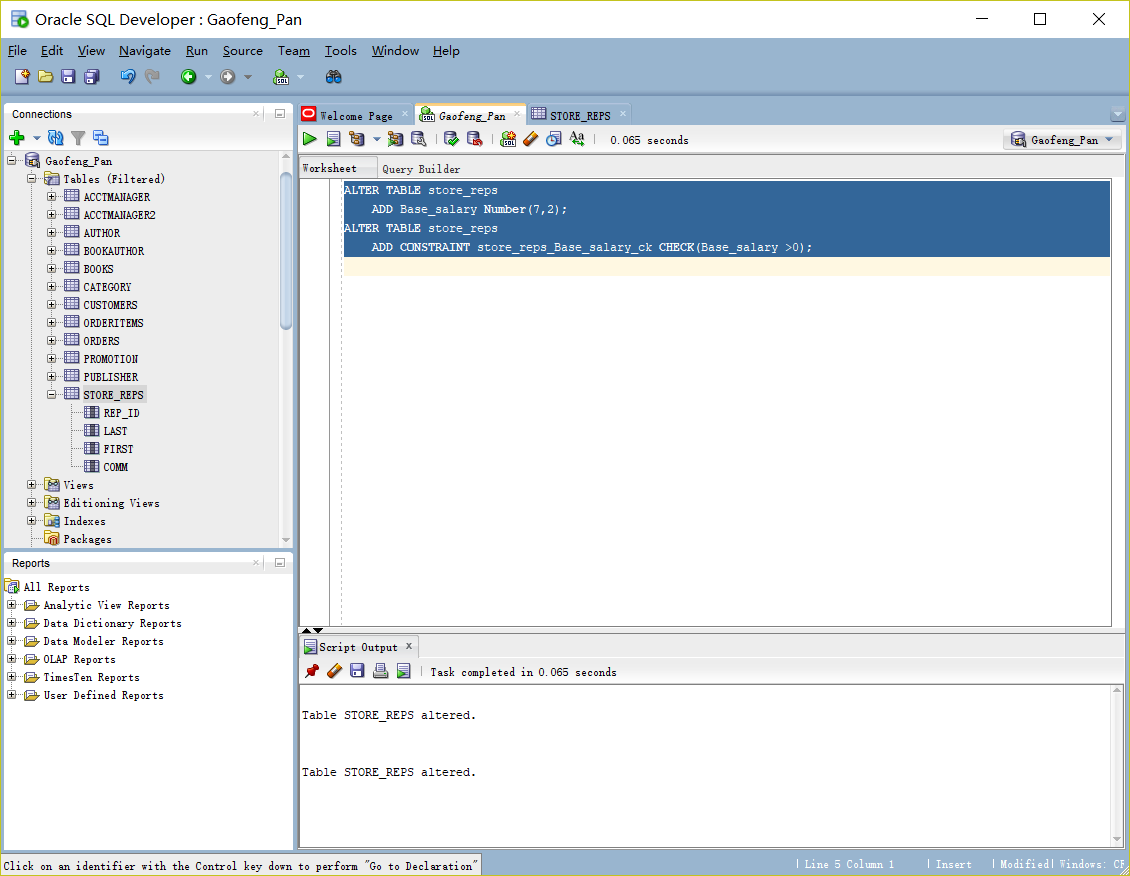
1. Add a column named Base\_salary with a datatype of NUMBER(7,2) to the STORE\_REPS table. Ensure that the amount entered is above zero.
   1. Script

ALTER TABLE store\_reps

ADD Base\_salary Number(7,2);

ALTER TABLE store\_reps

ADD CONSTRAINT store\_reps\_Base\_salary\_ck CHECK(Base\_salary >0);

* 1. Screenshot
     1. 

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

CREATE TABLE BOOK\_STORES

(Store\_ID NUMBER(8),

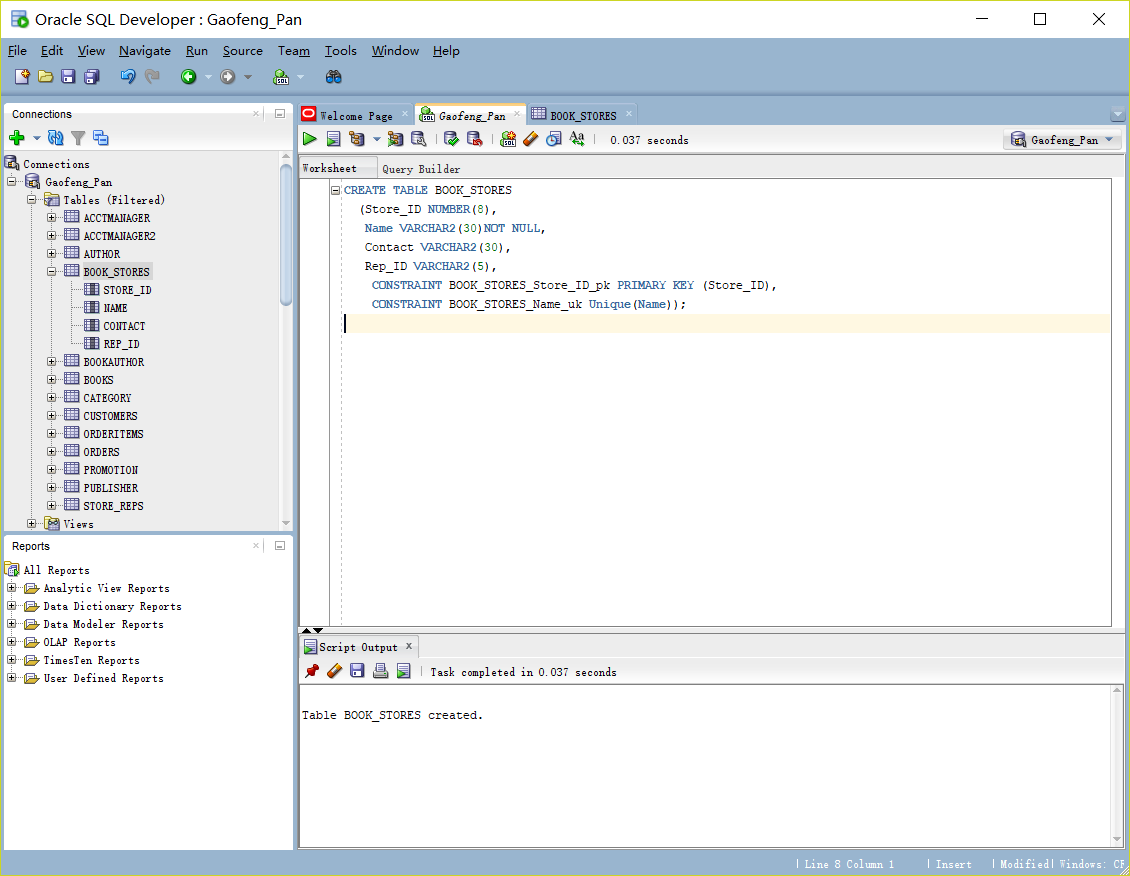
Name VARCHAR2(30)NOT NULL,

Contact VARCHAR2(30),

Rep\_ID VARCHAR2(5),

CONSTRAINT BOOK\_STORES\_Store\_ID\_pk PRIMARY KEY (Store\_ID),

CONSTRAINT BOOK\_STORES\_Name\_uk Unique(Name));

* 1. SCREEN SHOT
     1. 

1. 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?

Yes

Make table modifications as needed so that you can add the required constraint.

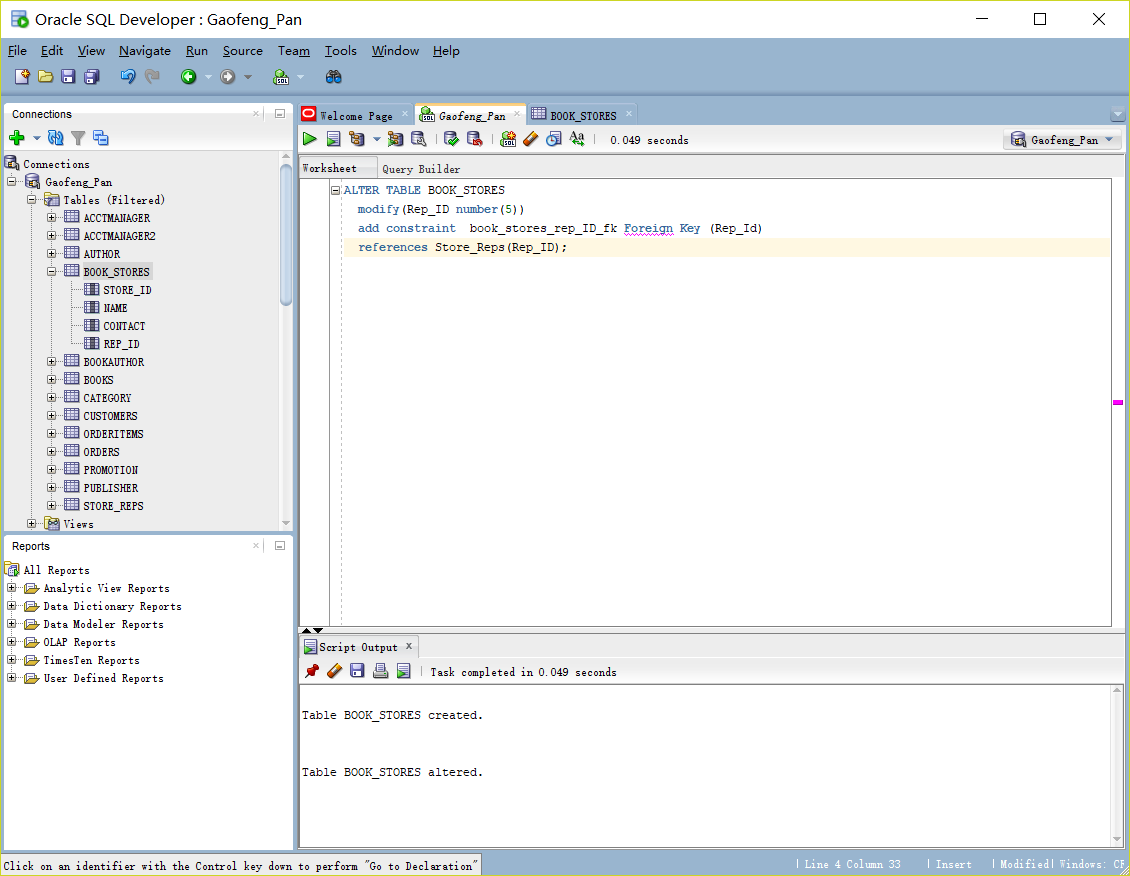
Column Name Datatype Constraint Comments

Store\_ID NUMBER(8) PRIMARY KEY column

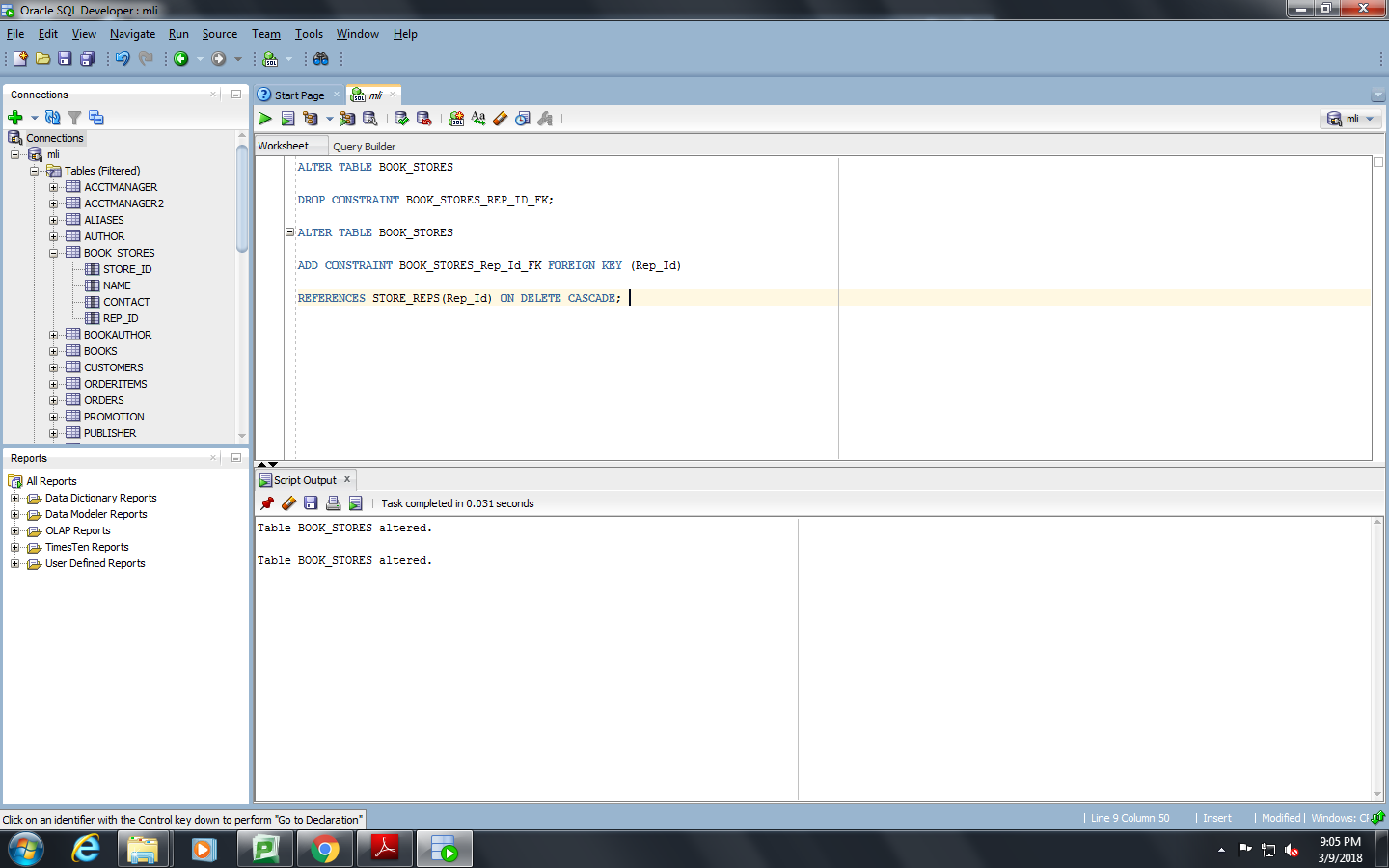
Name VARCHAR2(30) Should be UNIQUE and NOT NULL

Contact VARCHAR2(30)

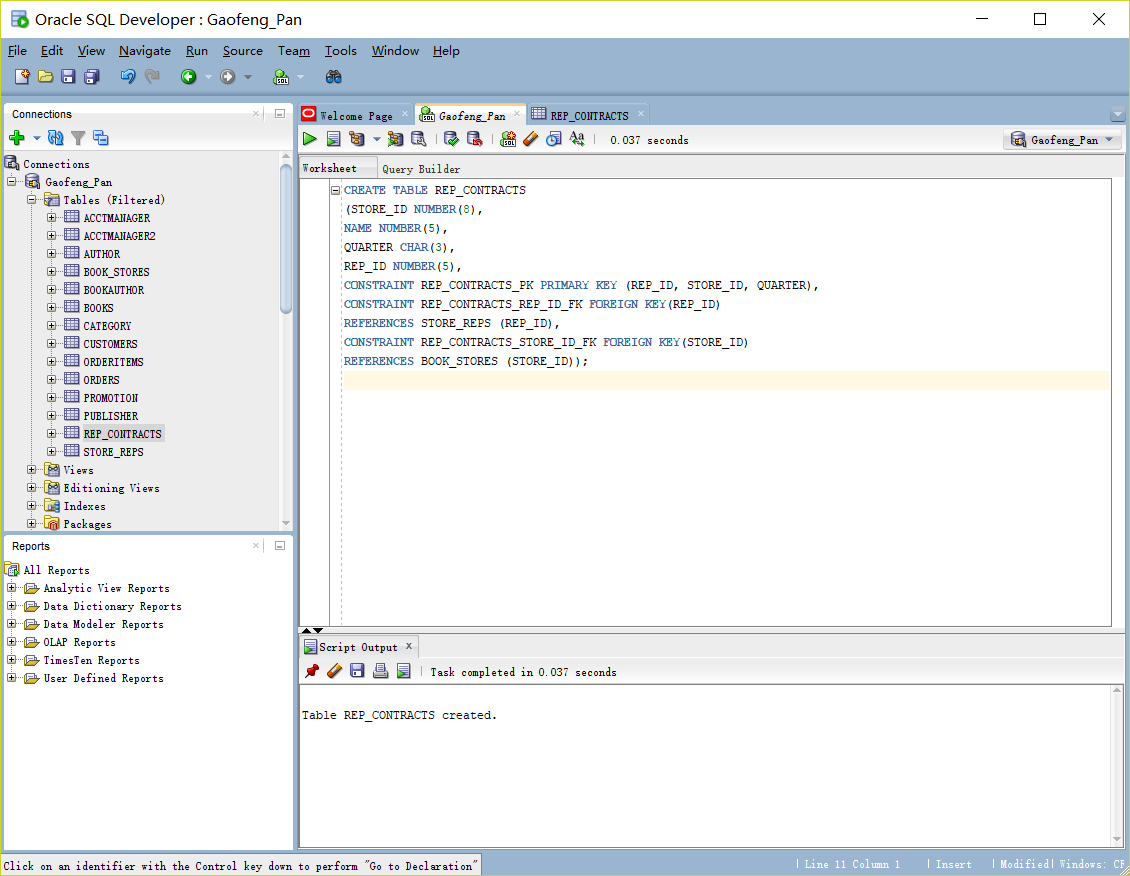
Rep\_ID VARCHAR2(5)

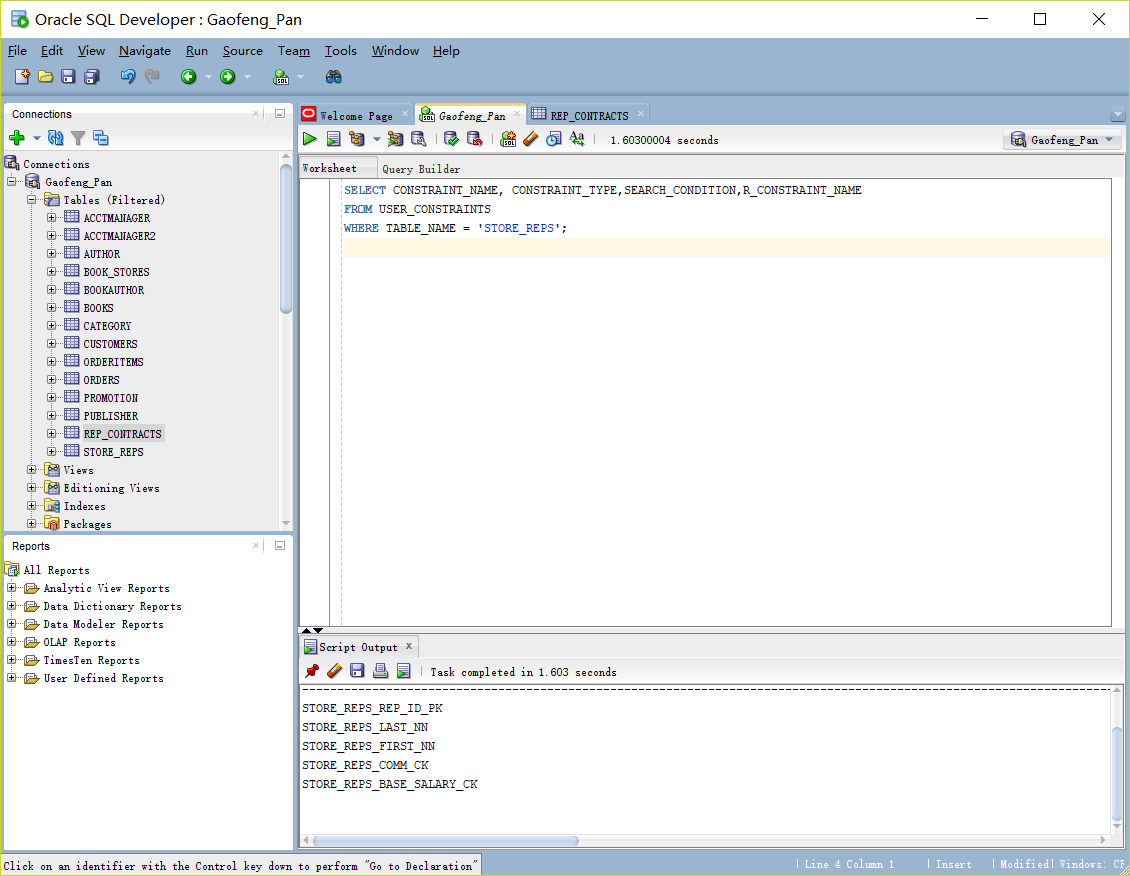
* 1. SCRIPT
     1. ALTER TABLE BOOK\_STORES
     2. modify(Rep\_ID number(5))
     3. add constraint book\_stores\_rep\_ID\_fk Foreign Key (Rep\_Id)
     4. references Store\_Reps(Rep\_ID);
  2. SCREENSHOT
     1. 

1. 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.
   1. ALTER TABLE BOOK\_STORES
   2. ADD CONSTRAINT BOOK\_STORES\_Rep\_Id\_FK FOREIGN KEY (Rep\_Id)
   3. REFERENCES STORE\_REPS(Rep\_Id) ON DELETE CASCADE;



1. 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.
   1. Column Name Datatype
   2. Store\_ID NUMBER(8)
   3. Name NUMBER(5)
   4. Quarter CHAR(3)
   5. Rep\_ID NUMBER(5)
      1. SCRIPT
         1. CREATE TABLE REP\_CONTRACTS
         2. (STORE\_ID NUMBER(8),
         3. NAME NUMBER(5),
         4. QUARTER CHAR(3),
         5. REP\_ID NUMBER(5),
         6. CONSTRAINT REP\_CONTRACTS\_PK PRIMARY KEY (REP\_ID, STORE\_ID, QUARTER),
         7. CONSTRAINT REP\_CONTRACTS\_REP\_ID\_FK FOREIGN KEY(REP\_ID)
         8. REFERENCES STORE\_REPS (REP\_ID),
         9. CONSTRAINT REP\_CONTRACTS\_STORE\_ID\_FK FOREIGN KEY(STORE\_ID)
         10. REFERENCES BOOK\_STORES (STORE\_ID));
      2. SCREENSHOT



1. Produce a list of information about all existing constraints on the STORE\_REPS table.
   1. SELECT CONSTRAINT\_NAME, CONSTRAINT\_TYPE,SEARCH\_CONDITION,R\_CONSTRAINT\_NAME
   2. FROM USER\_CONSTRAINTS
   3. WHERE TABLE\_NAME = 'STORE\_REPS';
   4. 
2. Issue the commands to disable and then enable the CHECK constraint on the Base\_salary column.
   1. ALTER TABLE STORE\_REPS
   2. DISABLE CONSTRAINT STORE\_REPS\_BASE\_SALARY\_CK;
   4. ALTER TABLE STORE\_REPS
   5. ENABLE CONSTRAINT STORE\_REPS\_BASE\_SALARY\_CK;
   6. 