/\*

5. In SQL Developer add the FOREIGN KEY constraints for each of the EMP, DEPT, PROJ and EMP\_PROJ tables

using Alter statement. For filename, use ALTER.sql accordingly.

\*/

ALTER TABLE EMP

ADD FOREIGN KEY(deptNo)

REFERENCES DEPT(deptNumber)

ALTER TABLE DEPT

ADD FOREIGN KEY(Mgr)

REFERENCES EMP(empNo)

ALTER TABLE PROJ

ADD FOREIGN KEY(deptNum)

REFERENCES DEPT(deptNumber)

ALTER TABLE EMP\_PROJ

ADD FOREIGN KEY(empNo)

REFERENCES EMP(empNo)

/\*

6. Use the substitution & method of INSERT command to populate EMP\_PROJ table.

7. Check that all data for EMP\_PROJ table has been entered.

\*/

INSERT INTO EMP\_PROJ

VALUES(&empNo, &projNo, &hoursWorked)

/\*

8. Use the alter table to add a new column named email in the employees table.

\*/

ALTER TABLE EMP

ADD email varchar2(255);

/\*

9. Try to execute the following insert statement and explain what is happening.

INSERT INTO EMPLOYEES VALUES (1172, ‘joe’, ‘Calvert’, ‘672 White Pine, Austin, TX’, ‘X’, 10000, 10) ;

\*/

INSERT INTO EMPLOYESS VALUES (1172, ‘joe’, ‘Calvert’, ‘672 White Pine, Austin, TX’, ‘X’, 10000, 10) ;

/\*

What is Happening:

The statement is attempting to insert the values within the parenthesis into the EMPLOYEES table.

Within the parathesis, string values are enclosed within '' and number values are not, but ‘ ’ is incorrect and should be ''.

Between each comma is a value to be inserted into a designated column (left to right),

but there is only 7 values and need to be 9 to equal the number of columns within the EMPLOYEES table.

The issue with this statement is that there is an error at command line: 47 column: 37, where there is an invalid character.

The cause is due to the identifier name starting with as ASCII character (‘ ’) and not a letter or a number.

Also the table is named EMP and not EMPLOYEES

\*/

DESCRIBE EMP

/\*

Name Null? Type

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EMPNO NOT NULL NUMBER(4)

FNAME NOT NULL VARCHAR2(50)

LNAME NOT NULL VARCHAR2(50)

ADDRESS VARCHAR2(50)

SEX CHAR(1)

SALARY NUMBER(6)

POSITION VARCHAR2(50)

DEPTNO NUMBER

EMAIL VARCHAR2(255)

\*/

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/\*

10. Please necessary corrections on the insert statement above.

\*/

SELECT \* FROM EMP

INSERT INTO EMP VALUES (1172, 'joe', 'Calvert', '672 White Pine, Austin, TX', 'X', 13000, 10, NULL, NULL);

/\*

CORRECTIONS:

-Salary has to be greater than 12000 (it was 10000)

-Changed ‘ ’ into ''

-Added 2 extra column values to equal the required amount of 9

-Changed EMPLOYEES into EMP to match naming scheme

\*/