**Company Case**

The company has 2 tables:

**Stage\_employee** table as follows:

Employee\_id char(8)

First\_name nvarchar2(100)

Last\_name nvarchar2(100)

Email\_address nvarhar2(1000)

**Employee\_email** table as follows:

Employee\_id char(8)

Email\_address nvarchar2(300)

The email\_address field contains multiple email addresses, separated by semicolons.

We need to separate the email address from the stage\_employee tables, for each employee, and insert them into the employee\_email table.

The sample stage\_employee table

Employee\_id 12345

First\_name John

Last\_name Doe

Email\_address [johndoe@riverside.com;jdoe@riverside.com;doe.john@riverside.com](mailto:johndoe@riverside.com;jdoe@riverside.com;doe.john@riverside.com)

The results in the employee\_email table should look like the following:

Record 1 employee\_id 12345

Email\_address [johndoe@riverside.com](mailto:johndoe@riverside.com)

Record 2 employee\_id 12345

Email\_address [jdoe@riverside.com](mailto:jdoe@riverside.com)

Record3 employee\_id 12345

Email\_address [doe.john@riverside.com](mailto:doe.john@riverside.com)

**Company Solution**

I completed the project on 2 platforms. I used PL/SQL on an Oracle 11.2.0 platform and I also implemented it on SQL Server 2012 platform.

For Oracle 11.2.0 using PL/SQL, follow procedure **updated\_email.sql**

For SQL Server 2012, I created 2 user defined functions: One to allow SQL Server to accept the INSTR function behavior that is available in the Oracle database, and another defined function that will allow for counting the occurrence of the semicolon in a string.

For SQL Server 2012, follow procedure **email\_procedure.sql**, add user defined functions: **instr\_function** and **count\_function**.

Reference material used: [www.sqlines.com/oracle/functions/instr](http://www.sqlines.com/oracle/functions/instr)

[www.sqlines.com/oracle/function/substr](http://www.sqlines.com/oracle/function/substr)

[www.sql-server-helper.com/functions/count-character.aspx](http://www.sql-server-helper.com/functions/count-character.aspx)