



PL/OFFX Create Hello World XLSX



PDF Reporting in Oracle database

In this tutorial you will learn how to install the PL/OFFX application and use it to create a HelloWorld example.

System requirements

Oracle 11g RDBMS Release 2 or higher
- with single-byte database character sets or
- with AL32UTF8 database character sets
Oracle 11g Express Edition is supported.

PL/SQL Developer 7+

Get the PL/OFFX program

Please download the program from www.plpdf.com/downloads. Unzip the ploffx.zip into a directory (<unzip_directory>), example c:\downloads.

Create the PLOFFX user

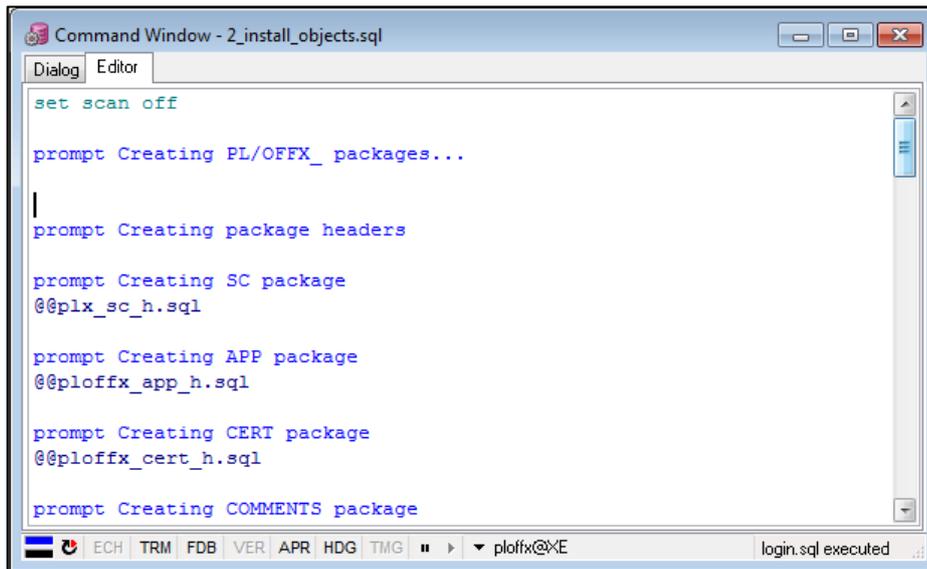
Start PL/SQL Developer or SQL*Plus and connect with an administrator user (example system) to the database as sysdba. Create the PLOFFX user (this example only shows how to create a minimal user (script: 1_create_user.sql). In PL/SQL Developer you can execute files to F8 key.

```
Command Window - 1_create_user.sql
Dialog Editor
prompt creating user
create user ploffx identified by ploffx;
prompt grant connect
grant connect to ploffx;
prompt grant resource
grant resource to ploffx;
prompt grant select
grant select on sys.v_$database to ploffx;
GRANT execute on sys.DBMS_CRYPT0 to ploffx;
ECH TRM FDB VER APR HDG TMG system@XE AS SYSDBA login.sql executed
```

1_create_user.sql

Connect to the database as ploffx

CONNECT ploffx/ploffx@<database> and execute this command: **set scan off;** ("Set scan off" turns off substitution variables.) Create objects (script: 2_install_objects.sql)
In PL/SQL Developer you open that file, and execute it with F8 key.



```

Command Window - 2_install_objects.sql
Dialog Editor
set scan off

prompt Creating PL/OFFX_ packages...

|
prompt Creating package headers

prompt Creating SC package
@@plx_sc_h.sql

prompt Creating APP package
@@ploffx_app_h.sql

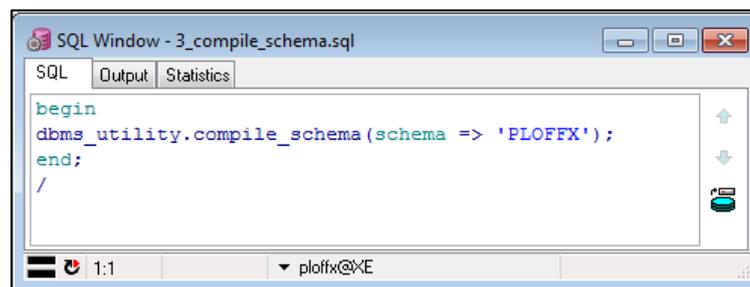
prompt Creating CERT package
@@ploffx_cert_h.sql

prompt Creating COMMENTS package
  
```

2_install_objects.sql

The package creation may takes a few minutes.

Optional: compile invalid packages (script: 3_compile_schema.sql)



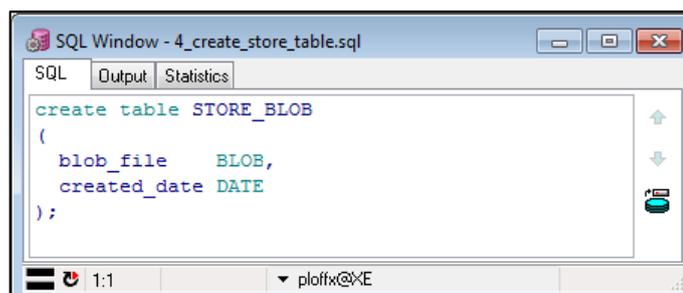
```

SQL Window - 3_compile_schema.sql
SQL Output Statistics
begin
dbms_utility.compile_schema(schema => 'PLOFFX');
end;
/
  
```

3_compile_schema

Create the Store_BLOB table

(script: 4_create_table.sql) Open and run it.



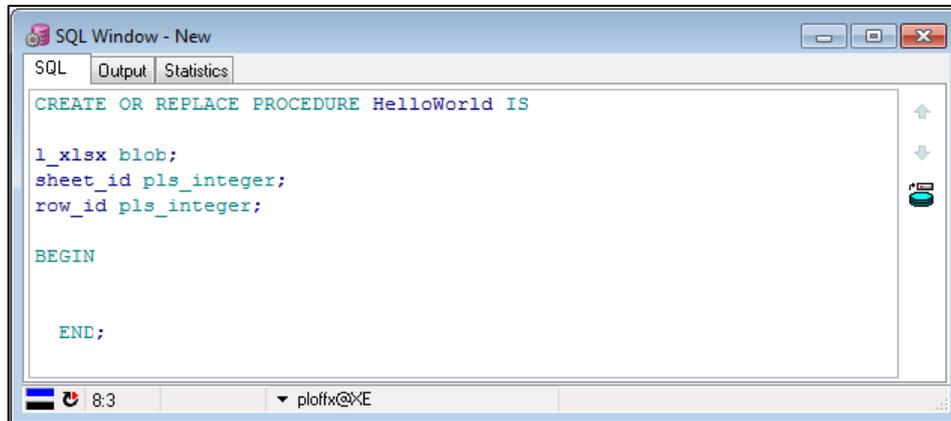
```

SQL Window - 4_create_store_table.sql
SQL Output Statistics
create table STORE_BLOB
(
blob_file BLOB,
created_date DATE
);
  
```

4_create_store_table.sql

Create a HelloWorld example.

In PL/SQL Developer click the New -> SQL Window under File menu in the menubar. Now you create a procedure called HelloWorld, like the picture:



First steps with HelloWorld procedure

```
l_xlsx blob;    -- Store the XLSX file
sheet_id pls_integer; -- Worksheet ID
row_id pls_integer; -- Row ID
```

After this, you initialize the generator program, and add a new worksheet to the document. To the Worksheet you add a row with the following lines:

```
ploffx_xlsx.init; -- Initialize the generator program
```

```
sheet_id := ploffx_xlsx.addWorksheet('HelloSheet'); -- Add a new Worksheet
```

```
row_id := ploffx_xlsx.addRow(sheet_id); -- Add a new row
```

Now, it's time to write the 'Hello World!' text into a cell.

```
ploffx_xlsx.addCell_String(
  p_ws => sheet_id,    -- Workseet ID
  p_row => row_id,     -- Row ID
  p_cell => 'A',       -- Cell name
  p_data => 'Hello World!' -- Text of the cell
);
```

Finally, you generate the document and store it in the STORE_BLOB table.

```
ploffx_xlsx.getDoc(p_blob_file => l_xlsx);
```



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```
INSERT INTO STORE_BLOB(BLOB_FILE,CREATED_DATE)
```

```
VALUES (l_xlsx,sysdate);
```

```
COMMIT;
```

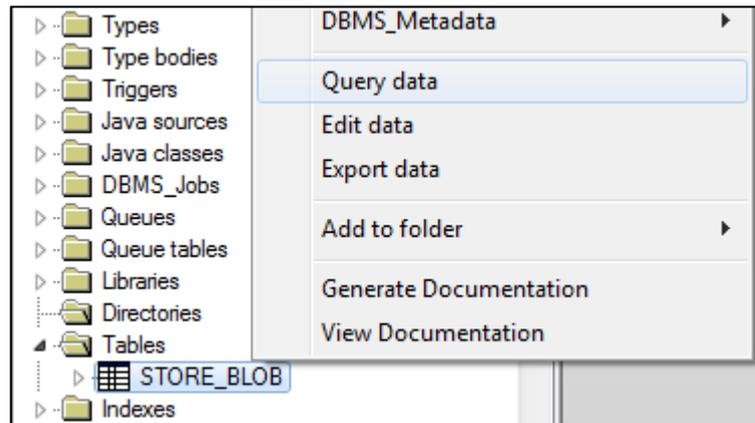
Your HelloWorld procedure was completed.

```
SQL Window - New
SQL Output Statistics
CREATE OR REPLACE PROCEDURE HelloWorld IS
l_xlsx blob;
sheet_id pls_integer;
row_id pls_integer;
BEGIN
  ploffx_xlsx.init;
  sheet_id := ploffx_xlsx.addWorksheet('HelloSheet');
  row_id := ploffx_xlsx.addRow(sheet_id);
  ploffx_xlsx.addCell_String(
    p_ws => sheet_id,
    p_row => row_id,
    p_cell => 'A',
    p_data => 'Hello World!'
  );
  ploffx_xlsx.getDoc(p_blob_file => l_xlsx);
  INSERT INTO STORE_BLOB(BLOB_FILE,CREATED_DATE) VALUES (l_xlsx,sysdate);
  COMMIT;
END;
```

Completed code

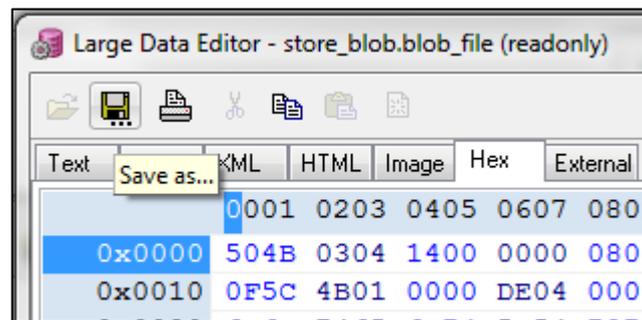
Execute it with F8 key. In Command Window type this: `exec HelloWorld;` and press **Enter**.

The file was created. You find it on this way:



Select the Query data option to show the STORE_BLOB table data

Click on the Blob file, and the top of the showing window you see the save button.

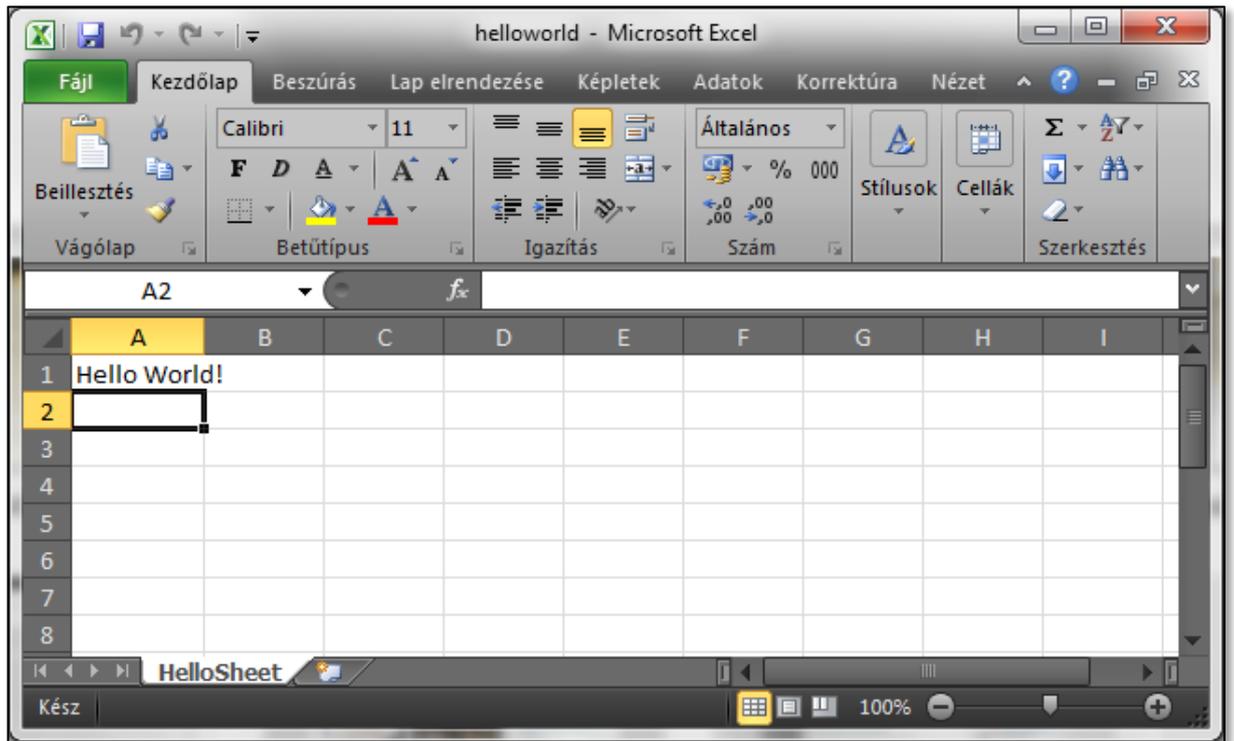


Save to HelloWorld.xlsx

Open the HelloWorld.xlsx file, and you have to look the result, like this screen:



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5. Result file