This application is an experimental project dedicated to developers who need to build sql query generating XML.
In addition, the application generates a default xslt FOP template which can be used by a FOP server.
Download on Github

For generating pdf, we must provide a valid Report server endpoint with FOP installed on tomcat.
I used the apex5_fop project from mikhailidim available on github.
That can be https://github.com/darklordgrep/APEX-FOP/blob/main/apex_fop.jsp as well, which has been published recently in march 2023.

## Usage

We choose a table or a view and some general rendering options.
then, FOP LAB follows all the Foreign Keys links in oder to generate an sql query and a default xslt layout.
If no FK are retrieved, only the master table is printed. In others cases, the master is printed in form display and all the chlid tables are displayed as xslt tables.
Ie: if we choose EMP table, the « managed people » are displayed as a grid under each master emp.

xslt templates are generated from xslt fragments which can be customized directly in the application.



Wednesday 06 September 2023

# Employees

GPM Factory - Demo APEX FOP

Id : 7698
Ename : BLAKE
Job : MANAGER
Mgr : 7839
Hiredate : 1981-05-01
Sal : 2960
Comm : 300
Deptno : 30
Dname : SALES
Loc : CHICAGO

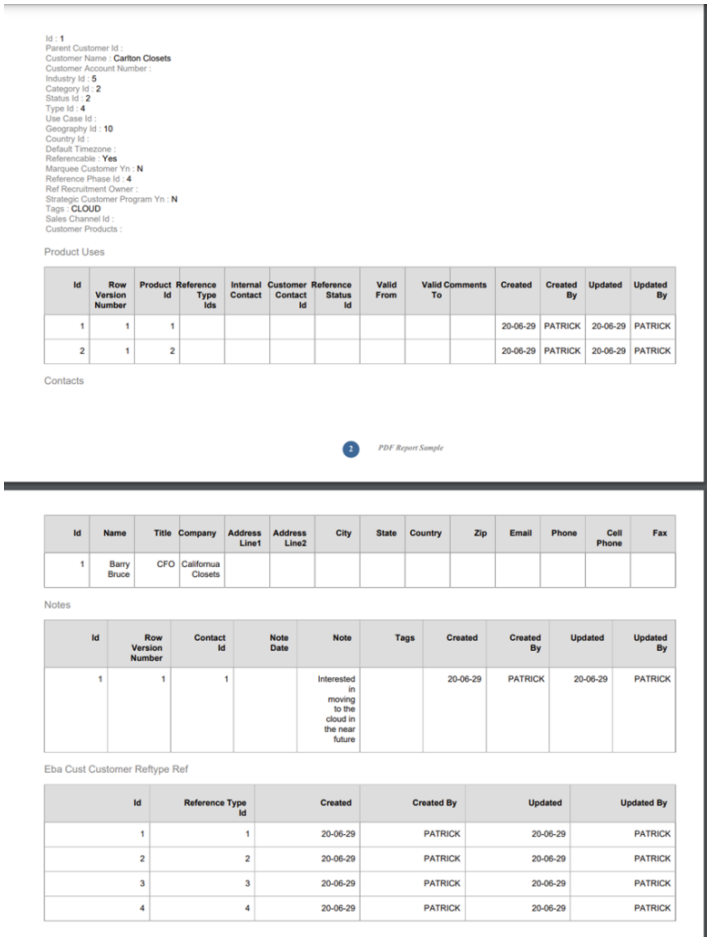
Employees

| Id | Ename | Job | Hiredate | Sal | Comm | Deptno |
|---|---|---|---|---|---|---|
| 7499 | ALLEN | SALESMAN | 1982-02-20 | 1600 | 300 | 30 |
| 7654 | MARTIN | SALESMAN | 1981-09-28 | 1250 | 1400 | 30 |
| 7844 | TURNER | SALESMAN | 1981-09-08 | 1500 | 0 | 30 |
| 7900 | JAMES | CLERK | 1981-12-03 | 950 | | 30 |

Order Id : 2
Customer Id : 1
Order Total : 2380
Order Timestamp : 2020-05-21T19:51:27.000000 00:00
User Name : DEMO
Tags : LARGE ORDER
Cust First Name : John
Cust Last Name : Dulles
Cust Street Address1 : 45020 Aviation Drive
Cust Street Address2 :
Cust City : Sterling
Cust State : VA
Cust Postal Code : 20166
Cust Email : john.dulles@email.com
Phone Number1 : 703-555-2143
Phone Number2 : 703-555-8967
Url : http://www.johndulles.com
Credit Limit : 1000
Tags :

Demo Order Items

| Order Item Id | Product Id | Unit Price | Quantity |
|---|---|---|---|
| 103 | 1 | 50 | 3 |
| 104 | 2 | 80 | 3 |
| 105 | 3 | 150 | 3 |
| 106 | 4 | 60 | 3 |
| 107 | 5 | 80 | 3 |
| 108 | 6 | 120 | 2 |
| 109 | 7 | 30 | 2 |
| 110 | 8 | 125 | 4 |
| 111 | 9 | 110 | 2 |
| 112 | 10 | 50 | 2 |



Id : 1
Parent Customer Id :
Customer Name : Carlton Closets
Customer Account Number :
Industry Id : 5
Category Id : 2
Status Id : 2
Type Id : 4
Use Case Id :
Geography Id : 10
Country Id :
Default Timezone :
Referencable : Yes
Marquee Customer Yn : N
Reference Phase Id : 4
Ref Recruitment Owner :
Strategic Customer Program Yn : N
Tags : CLOUD
Sales Channel Id :
Customer Products :

Product Uses

| Id | Row Version Number | Product Id | Reference Type Ids | Internal Contact | Customer Contact Id | Reference Status Id | Valid From | Valid To | Comments | Created | Created By | Updated | Updated By |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | | | | | | | | 20-06-29 | PATRICK | 20-06-29 | PATRICK |
| 2 | 1 | 2 | | | | | | | | 20-06-29 | PATRICK | 20-06-29 | PATRICK |

Contacts

2 PDF Report Sample

| Id | Name | Title | Company | Address Line1 | Address Line2 | City | State | Country | Zip | Email | Phone | Cell Phone | Fax |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | Barry Bruce | CFO | Californua Closets | | | | | | | | | | |

Notes

| Id | Row Version Number | Contact Id | Note Date | Note | Tags | Created | Created By | Updated | Updated By |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | 1 | | Interested in moving to the cloud in the near future | | 20-06-29 | PATRICK | 20-06-29 | PATRICK |

Eba Cust Customer Reftype Ref

| Id | Reference Type Id | Created | Created By | Updated | Updated By |
|---|---|---|---|---|---|
| 1 | 1 | 20-06-29 | PATRICK | 20-06-29 | PATRICK |
| 2 | 2 | 20-06-29 | PATRICK | 20-06-29 | PATRICK |
| 3 | 3 | 20-06-29 | PATRICK | 20-06-29 | PATRICK |
| 4 | 4 | 20-06-29 | PATRICK | 20-06-29 | PATRICK |

The application is mainly intended to generate a sql query which generates in turn some xml stuff.
Because wrinting this kind of query is cumbersome, FOP LAB can be a good friend.
If we need to customize content of a child, the supported metthod is to create a view with a name identical to the child table and a suffix ‘_FOP_V’. In this case the view supersedes the original table.
IN the following exemple, we use ORDERS_ITEMS_FOP_V instead ORDERS_ITEMS to display aggregates (Total) and retrieve the product name.
It’s needed to add a Foreign key with ‘DISABLED’ status for linking the view with the ORDERS table.

Order Id : 877
Order Datetime : 2022-10-12T04:36:38.000000
Customer Id : 122
Order Status : COMPLETE
Store Id : 6
Full Name : Lenore Sullivan
Email Address : lenore.sullivan@internalmail
Store Name : London
Web Address :
Physical Address : One South Place London EC2M 2RB

Order Items

| Quantity | Unit Price | Total | Product Id | Product |
|---|---|---|---|---|
| 5 | 43.71 | 218.55 | 5 | Girl's Shorts (Red) |
| 4 | 30.69 | 122.76 | 11 | Boy's Shorts (Blue) |
| 2 | 9.8 | 19.6 | 25 | Girl's Jeans (Grey) |

## Exemple of generated Sql Query

```
select "ORDERS"
from
(SELECT XMLSERIALIZE(
     CONTENT XMLELEMENT("ORDERS",
XMLELEMENT("HEADER", XMLELEMENT("report_date", TO_CHAR(SYSDATE,'Day DD
Month YYYY')),
XMLELEMENT("TITLE", ''),
XMLELEMENT("DD", TO_CHAR(SYSDATE,'Day DD')),
XMLELEMENT("D", TO_CHAR(SYSDATE,'DD')),
XMLELEMENT("DAY", TO_CHAR(SYSDATE,'Day')),
XMLELEMENT("MONTH", TO_CHAR(SYSDATE,'Month')),
XMLELEMENT("YEAR", TO_CHAR(SYSDATE,'YYYY'))
),
         XMLAGG (
             XMLELEMENT("ORDERS_REC",
                 XMLFOREST (
                     e.ORDER_ID AS "ORDER_ID",
                     e.ORDER_DATETIME AS "ORDER_DATETIME",
```

```
                    e.CUSTOMER_ID AS "CUSTOMER_ID",
                    e.ORDER_STATUS AS "ORDER_STATUS",
                    e.STORE_ID AS "STORE_ID",
                    CUSTOMERS.CUSTOMER_ID AS "CUSTOMERS_CUSTOMER_ID",
                    CUSTOMERS.FULL_NAME AS "CUSTOMERS_FULL_NAME",
                    CUSTOMERS.EMAIL_ADDRESS AS
"CUSTOMERS_EMAIL_ADDRESS",
                    STORES.STORE_ID AS "STORES_STORE_ID",
                    STORES.STORE_NAME AS "STORES_STORE_NAME",
                    STORES.WEB_ADDRESS AS "STORES_WEB_ADDRESS",
                    STORES.PHYSICAL_ADDRESS AS
"STORES_PHYSICAL_ADDRESS",/* ------ ORDER_ITEMS_FOP_V / SYS_C0064516 -
----- */
                    (select XMLAGG(
                        XMLELEMENT("ORDER_ITEMS_FOP_V_ORDERS_REC",
                            XMLFOREST(
                                ORDER_ITEMS_FOP_V.QUANTITY AS
"QUANTITY",
                                ORDER_ITEMS_FOP_V.UNIT_PRICE AS
"UNIT_PRICE",
                                ORDER_ITEMS_FOP_V.MNT AS "MNT",
                                ORDER_ITEMS_FOP_V.ORDER_ID AS
"ORDER_ID",
                                ORDER_ITEMS_FOP_V.PRODUCT_ID AS
"PRODUCT_ID",
                                ORDER_ITEMS_FOP_V.PRODUCT_NAME AS
"PRODUCT_NAME"
                            )
                        )
                    )
                    from ORDER_ITEMS_FOP_V
                    where ORDER_ITEMS_FOP_V.ORDER_ID =
e.ORDER_ID
                    ) ORDER_ITEMS_FOP_V
```

```
                    )
                )
            )
        )
) AS "ORDERS"
from "ORDERS" e ,
            CUSTOMERS,
            STORES
where rownum<100and
NVL(:PKID,e.ORDER_ID) = e.ORDER_ID
AND e.CUSTOMER_ID =CUSTOMERS.CUSTOMER_ID
AND e.STORE_ID =STORES.STORE_ID
)
```

## Author



Patrick

GPM Factory