



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](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 order 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 child 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 : 7639  
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 :  
 Referenceable : **Yes**  
 Marquee Customer Yr : **N**  
 Reference Phase Id : 4  
 Ref Recruitment Owner :  
 Strategic Customer Program Yr : **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

PDF Report Sample

Id	Name	Title	Company	Address Line1	Address Line2	City	State	Country	Zip	Email	Phone	Cell Phone	Fax
1	Barry Bruce	CFO	California 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 ReType 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 writing this kind of query is cumbersome, FOP LAB can be a good friend. If we need to customize content of a child, the supported method 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
)
```