



Tracking Item Price Changes Query

Solution

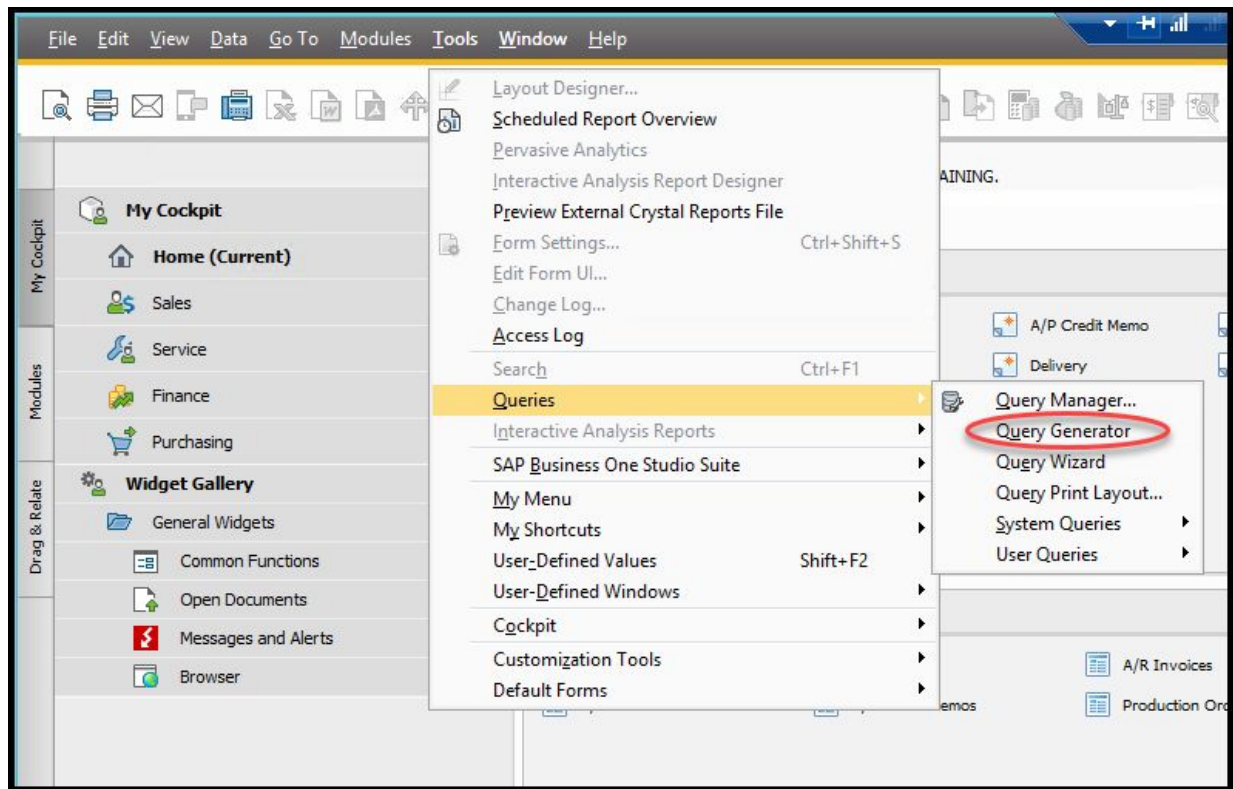
There is no Price History table for the Price List table. However, the item prices are saved in the ITM1 table and there is a history table for this, AIT1. Consequently, to track the change in item prices, a user query is necessary.

Step By Step Guide

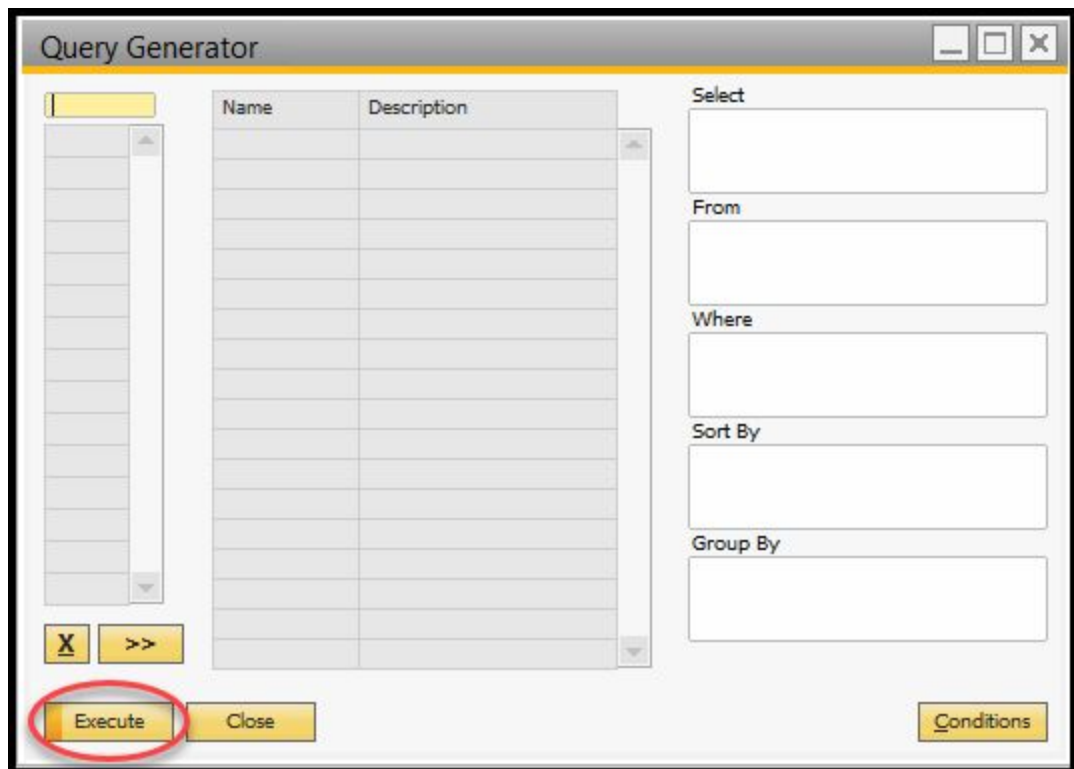
Please save the attached query to the Query Manager. To do this:



1. Open the Query Generator (). Reports -> Query Generator

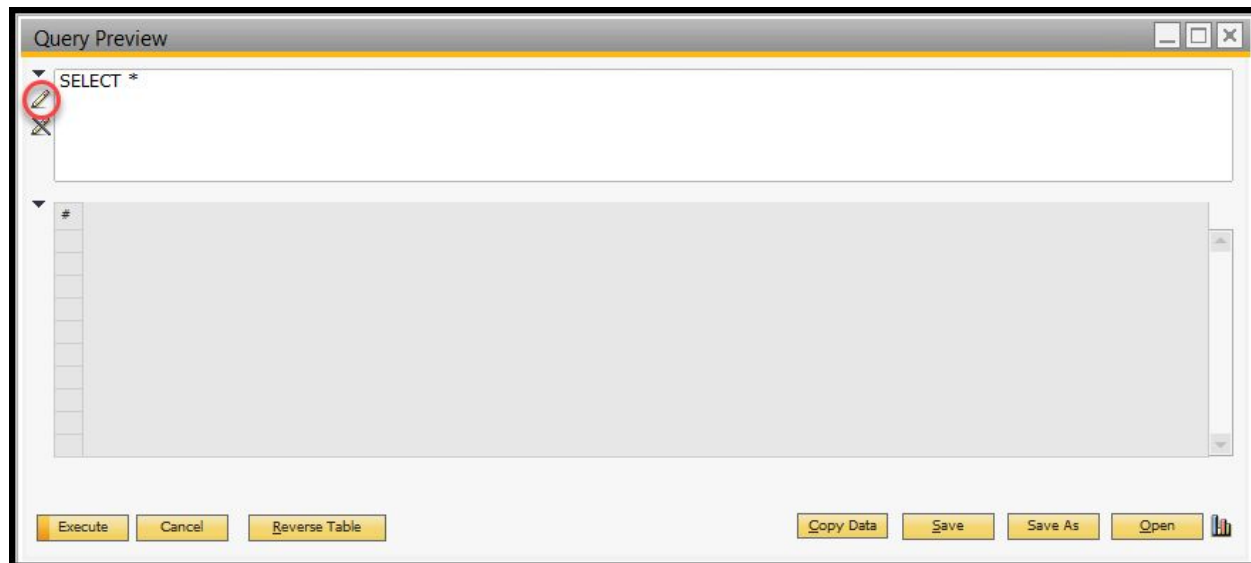


2. Press Execute without entering any table information.





3. Click the pencil icon to the left of the 'Select*' statement. This opens the query for editing.



4. Delete the words 'SELECT *' and copy in the query from below or from the PDF filer here:**Price History Query**
5. Press Save; the Query Manager opens.
6. Click a title from the displayed list. In the Query Name field, enter a name for the query.
7. Press Save; the query is saved in the Query Manager.

Query

/*This query uses Common Table Expression (CTE) to return only those rows

where there is a price change per item per price list.*/

With PriceTrack (ItemCode, Pricelist_No, Pricelist_Name, Currency, Price, UpdateDate,

LogInstanc) as

(



```
/* Select each item's price, per log instance, in a specific price
```

```
list and return those rows where the price is different */
```

```
Select distinct T0.itemcode, T1.PriceList, T2.ListName, t1.currency, T1.Price, T0.UpdateDate,  
T1.loginstanc
```

```
FROM
```

```
AITM T0
```

```
Inner Join AIT1 T1 on T0.itemcode = T1.Itemcode
```

```
and t0.loginstanc = t1.loginstanc
```

```
left outer join AIT1 T3 on T1.itemcode = T3.itemcode
```

```
and t1.pricelist = T3.pricelist
```

```
and t1.loginstanc > t3.loginstanc
```

```
INNER JOIN OPLN T2 on T1.PriceList = T2.ListNum
```

```
where (t1.price <> t3.price )
```



```
AND T2.ListName = [%0]
```

```
/*select price changes where only the currency changes*/
```

```
union
```

```
Select distinct T0.itemcode, T1.PriceList , T2.ListName, t1.currency, T1.Price, T0.UpdateDate,
```

```
T1.loginstanc
```

```
FROM
```

```
AITM T0
```

```
Inner Join AIT1 T1 on T0.itemcode = T1.Itemcode
```

```
and t0.loginstanc = t1.loginstanc
```

```
left outer join AIT1 T3 on T1.itemcode = T3.itemcode
```

```
and t1.pricelist = T3.pricelist
```

```
and t1.loginstanc > t3.loginstanc
```

```
INNER JOIN OPLN T2 on T1.PriceList = T2.ListNum
```

```
where (t1.price = t3.price and T1.currency <> T3.currency ) AND T2.ListName = [%0]
```



```
/*Select factors which have not been manually updated.*/
```

```
union
```

```
Select distinct T5.itemcode, T5.PriceList , T2.ListName, t5.currency, T5.Price, ", T5.loginstanc
```

```
FROM
```

```
AITM T0
```

```
Inner Join AIT1 T1 on T0.itemcode = T1.Itemcode
```

```
and t0.loginstanc = t1.loginstanc
```

```
left outer join AIT1 T3 on T1.itemcode = T3.itemcode
```

```
and t1.pricelist = T3.pricelist
```

```
and t1.loginstanc > t3.loginstanc
```

```
Right Outer join OPLN T4 on T1.PriceList <> T4.ListNum
```

```
Inner join ITM1 T5 on T4.listnum = T5.pricelist
```

```
INNER JOIN OPLN T2 on T1.PriceList = T2.ListNum
```



where

T4.Base_Num <> T4.listNum

and

T5.price <> 0

AND T2.ListName = [%0]

/*Exclude all those incidents where the price has not changed.

e.g. log instance 5 shows a change to the price of \$20 but there is no subsequent price

change until log instance 10. This section removes all the irrelevant rows from the result

set */

except

Select distinct T0.itemcode,T1.PriceList, T2.ListName, t1.currency, T1.Price, T0.UpdateDate,

T1.loginstanc

FROM

AITM T0



```
Inner Join AIT1 T1 on T0.itemcode = T1.Itemcode
```

```
and t0.loginstanc = t1.loginstanc
```

```
left outer join AIT1 T3 on T1.itemcode = T3.itemcode
```

```
and t1.pricelist = T3.pricelist
```

```
and t1.loginstanc > t3.loginstanc
```

```
INNER JOIN OPLN T2 on T1.PriceList = T2.ListNum
```

```
where t1.price = t3.price and t1.currency =T3.currency
```

```
AND T2.ListName = [%0]
```

```
)
```

```
/*Select all data from the common table expression*/
```

```
select * from pricetrack ORDER BY "ItemCode", "Pricelist_No", "LogInstanc"
```

Explanation

Query with some explanation:



- Copy the query (SQL or HANA) from the relevant attached file.
- This query detects all price changes, per item per price list, in the AIT1 table.
- The query detects all regular manual changes to the item prices in its price list.
- Changes to the currency but not the price.
- It tracks the item price in a target price list when its price is changed in its base price list.
- To limit the query to a specific item and/or price list, add a where condition to the last select statement.
 - For example:
select * from pricetrack where Itemcode = 'Itemcode1' and Pricelist = '1'
- To use SAP Business One variables in this section, the code appears as follows:
select * from pricetrack where Itemcode = '[%1]' and Pricelist = '[%2]'

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