# Oracle® Retail Analytics

# Solution Report

## Description

RMS中的订单传入RA增加已审核的订单但是还未收货的数据，并且把订单审批日期和订单失效日期传入RA

## Step of analysis

1. RADM.W\_RTL\_SUPPCM\_IT\_LC\_DY\_F.DT\_WID采用订单失效日期（RMS.CMX\_ORDHEAD.EXPIRED\_DATE）
2. RADM.W\_RTL\_SUPPCM\_IT\_LC\_DY\_F.BBG\_REFERENCE\_DO1定义为：订单失效日期。  
   RADM.W\_RTL\_SUPPCM\_IT\_LC\_DY\_F.BBG\_REFERENCE\_DO2定义为：收货日期。

RADM.W\_RTL\_SUPPCM\_IT\_LC\_DY\_F.BBG\_REFERENCE\_DO3定义为：订单审批日期。

1. 还未收货订单需要传入RA，需要修改RA\_RMS.IF\_TRAN\_DATA视图，把未收货的订单数据也需要加入视图。同时修改SDE\_RetailSupplierComplianceTempLoad\_J接口。
2. 在第3步做好后，发现RADM.W\_RTL\_SUPPCM\_IT\_LC\_DY\_FS已经接收到未收货订单，但是RADM.W\_RTL\_SUPPCM\_IT\_LC\_DY\_F确没有收到未收货订单，需要修改SIL部分
3. RMS.ORDLOC的订货数量应该为：QTY\_ORDERED+QTY\_CANCELLED，而目前传入RA的订货量为：QTY\_PRESCALED。需要修改ODI接口：SDE\_RetailSupplierComplianceTempLoad\_C，SDE\_RetailSupplierComplianceTempLoad\_D。并且把已传入RA的订货数量修复。
4. 同第5点，传入RA的订货金额也需要修改，原系统为：SUM(ORDLOC.UNIT\_COST \* ORDLOC.QTY\_PRESCALED)，需要修改为SUM(ORDLOC.UNIT\_COST \* QTY\_ORDERED+NVL(QTY\_CANCELLED,0))，需要修改的ODI接口：SDE\_RetailSupplierComplianceTempLoad\_C，SDE\_RetailSupplierComplianceTempLoad\_D。并且需要修护历史数据。

## SQL Script

1. **W\_RTL\_SUPPCM\_IT\_LC\_DY\_F**comment on column W\_RTL\_SUPPCM\_IT\_LC\_DY\_F.bbg\_reference\_do1  
    is 'Dimension扩展1,订单失效日期（RMS.CMX\_ORDHEAD.EXPIRED\_DATE）';  
   comment on column W\_RTL\_SUPPCM\_IT\_LC\_DY\_F.bbg\_reference\_do2  
    is 'Dimension扩展2,收货日期(RMS.IF\_TRAN\_DATA.TRAN\_DATE)';

comment on column W\_RTL\_SUPPCM\_IT\_LC\_DY\_F.bbg\_reference\_do3  
 is 'Dimension扩展3, 订单审批日期(RMS.ORDHEAD.ORIG\_APPROVAL\_DATE);  
alter table W\_RTL\_SUPPCM\_IT\_LC\_DY\_F modify bbg\_reference\_do1 date;

alter table W\_RTL\_SUPPCM\_IT\_LC\_DY\_F modify bbg\_reference\_do2 date;

alter table W\_RTL\_SUPPCM\_IT\_LC\_DY\_F modify bbg\_reference\_do3 date;

1. **W\_RTL\_SUPPCM\_IT\_LC\_DY\_FS**-- Add/modify columns

alter table W\_RTL\_SUPPCM\_IT\_LC\_DY\_FS modify bbg\_reference\_do1 date;

alter table W\_RTL\_SUPPCM\_IT\_LC\_DY\_FS modify bbg\_reference\_do2 date;

alter table W\_RTL\_SUPPCM\_IT\_LC\_DY\_FS modify bbg\_reference\_do3 date;

-- Add comments to the columns

comment on column W\_RTL\_SUPPCM\_IT\_LC\_DY\_FS.bbg\_reference\_do1

is 'Dimension扩展1,订单失效日期（RMS.CMX\_ORDHEAD.EXPIRED\_DATE）';

comment on column W\_RTL\_SUPPCM\_IT\_LC\_DY\_FS.bbg\_reference\_do2

is 'Dimension扩展2,收货日期(RMS.IF\_TRAN\_DATA.TRAN\_DATE)';comment on column W\_RTL\_SUPPCM\_IT\_LC\_DY\_FS.bbg\_reference\_do3

is ' Dimension扩展3,订单审批日期（RMS.ORDHEAD.ORIG\_APPROVAL\_DATE）';

1. **W\_RTL\_SUPPCM\_IT\_LC\_DY\_TMP**-- Add/modify columns

alter table RABATCHER.W\_RTL\_SUPPCM\_IT\_LC\_DY\_TMP modify bbg\_reference\_do1 date;

alter table RABATCHER.W\_RTL\_SUPPCM\_IT\_LC\_DY\_TMP modify bbg\_reference\_do2 date;

alter table RABATCHER.W\_RTL\_SUPPCM\_IT\_LC\_DY\_TMP modify bbg\_reference\_do3 date;

-- Add comments to the columns

comment on column RABATCHER.W\_RTL\_SUPPCM\_IT\_LC\_DY\_TMP.bbg\_reference\_do1

is 'Dimension扩展1,订单失效日期（RMS.CMX\_ORDHEAD.EXPIRED\_DATE）';

comment on column RABATCHER.W\_RTL\_SUPPCM\_IT\_LC\_DY\_TMP.bbg\_reference\_do2

is 'Dimension扩展2,收货日期(RMS.IF\_TRAN\_DATA.TRAN\_DATE)';

comment on column RABATCHER.W\_RTL\_SUPPCM\_IT\_LC\_DY\_TMP.bbg\_reference\_do3

is 'Dimension扩展3, 订单审批日期（RMS.ORDHEAD.ORIG\_APPROVAL\_DATE）';

1. **W\_RTL\_SUPPCM\_A\_TMP**-- Add/modify columns

alter table W\_RTL\_SUPPCM\_A\_TMP add bbg\_expired\_date date;

alter table W\_RTL\_SUPPCM\_A\_TMP add bbg\_tran\_date date;

alter table W\_RTL\_SUPPCM\_A\_TMP add BBG\_ORIG\_APPROVAL\_DATE date;

-- Add comments to the columns

comment on column W\_RTL\_SUPPCM\_A\_TMP.bbg\_expired\_date

is '订单失效日期（RMS.CMX\_ORDHEAD.EXPIRED\_DATE）';

comment on column W\_RTL\_SUPPCM\_A\_TMP.bbg\_tran\_date

is '收货日期(RMS.IF\_TRAN\_DATA.TRAN\_DATE)';

comment on column W\_RTL\_SUPPCM\_A\_TMP.BBG\_ORIG\_APPROVAL\_DATE

is '订单审批日期（RMS.ORDHEAD.ORIG\_APPROVAL\_DATE）';

1. **W\_RTL\_SUPPCM\_D\_TMP**-- Add/modify columns

alter table W\_RTL\_SUPPCM\_D\_TMP add bbg\_expired\_date date;

alter table W\_RTL\_SUPPCM\_D\_TMP add bbg\_tran\_date date;

alter table W\_RTL\_SUPPCM\_D\_TMP add BBG\_ORIG\_APPROVAL\_DATE date;

-- Add comments to the columns

comment on column W\_RTL\_SUPPCM\_D\_TMP.bbg\_expired\_date

is '订单失效日期（RMS.CMX\_ORDHEAD.EXPIRED\_DATE）';

comment on column W\_RTL\_SUPPCM\_D\_TMP.bbg\_tran\_date

is '收货日期(RMS.IF\_TRAN\_DATA.TRAN\_DATE)';

comment on column W\_RTL\_SUPPCM\_D\_TMP.BBG\_ORIG\_APPROVAL\_DATE

is '订单审批日期（RMS.ORDHEAD.ORIG\_APPROVAL\_DATE）';

1. **W\_RTL\_SUPPCM\_F\_TMP**-- Add/modify columns

alter table W\_RTL\_SUPPCM\_F\_TMP add bbg\_expired\_date date;

alter table W\_RTL\_SUPPCM\_F\_TMP add bbg\_tran\_date date;

alter table W\_RTL\_SUPPCM\_F\_TMP add BBG\_ORIG\_APPROVAL\_DATE date;

-- Add comments to the columns

comment on column W\_RTL\_SUPPCM\_F\_TMP.bbg\_expired\_date

is '订单失效日期（RMS.CMX\_ORDHEAD.EXPIRED\_DATE）';

comment on column W\_RTL\_SUPPCM\_F\_TMP.bbg\_tran\_date

is '收货日期(RMS.IF\_TRAN\_DATA.TRAN\_DATE)';

comment on column W\_RTL\_SUPPCM\_F\_TMP.BBG\_ORIG\_APPROVAL\_DATE

is '订单审批日期（RMS.ORDHEAD.ORIG\_APPROVAL\_DATE）';

1. **修改主键索引**  
   修改W\_RTL\_SUPPCM\_IT\_LC\_DY\_F主键索引:  
   alter table W\_RTL\_SUPPCM\_IT\_LC\_DY\_F drop constraint PK\_W\_RTL\_SUPPCM\_IT\_LC\_DY\_F cascade drop index;

alter table W\_RTL\_SUPPCM\_IT\_LC\_DY\_F add constraint PK\_W\_RTL\_SUPPCM\_IT\_LC\_DY\_F primary key(ORG\_DH\_WID,

PROD\_WID,

--DT\_WID,

BG\_REFERENCE\_DO2,

SUPPLIER\_WID,

PURCHASE\_ORDER\_ID,

SHIPMENT\_ID,

BBG\_ITEM\_LOC\_WID,

BBG\_ITEM\_LOC\_SUPP\_WID)

using index tablespace RETAIL\_DATA pctfree 10 initrans 2 maxtrans 255 storage(initial 64K next 1M

minextents 1

maxextents

unlimited);

1. 修改视图RA\_RMS.RA\_W\_RTL\_SUPPCM\_TS\_V，增加订单审批日期：ORIG\_APPROVAL\_DATE
2. 修改表：RA\_RMS.W\_RTL\_SUPPCM\_TS\_B\_TMP,  
   增加列ORIG\_APPROVAL\_DATE(订单审批日期)，数据类型：DATE

增加列EXPIRED\_DATE(订单失效日期),数据类型：DATE

1. 未收货订单传入RA需要修改视图：RA\_RMS.IF\_TRAN\_DATA  
   CREATE OR REPLACE VIEW RA\_RMS.IF\_TRAN\_DATA AS

SELECT ITEM,

DEPT,

CLASS,

SUBCLASS,

PACK\_IND,

LOC\_TYPE,

LOCATION,

TRAN\_DATE,

TRAN\_CODE,

ADJ\_CODE,

UNITS,

TOTAL\_COST,

TOTAL\_RETAIL,

REF\_NO\_1,

REF\_NO\_2,

GL\_REF\_NO,

OLD\_UNIT\_RETAIL,

NEW\_UNIT\_RETAIL,

PGM\_NAME,

SALES\_TYPE,

VAT\_RATE,

AV\_COST,

REF\_PACK\_NO,

TRAN\_DATA\_TIMESTAMP

FROM RMS.IF\_TRAN\_DATA

UNION

SELECT V.ITEM ITEM,

NULL DEPT,

NULL CLASS,

NULL SUBCLASS,

NULL PACK\_IND,

NULL LOC\_TYPE,

D.LOCATION LOCATION,

TO\_DATE(TO\_CHAR(T.ORIG\_APPROVAL\_DATE, 'YYYYMMDD'), 'YYYY-MM-DD') TRAN\_DATE,

20 TRAN\_CODE,

NULL ADJ\_CODE,

NULL UNITS,

NULL TOTAL\_COST,

NULL TOTAL\_RETAIL,

T.ORDER\_NO REF\_NO\_1,

NULL REF\_NO\_2,

NULL GL\_REF\_NO,

NULL OLD\_UNIT\_RETAIL,

NULL NEW\_UNIT\_RETAIL,

NULL PGM\_NAME,

NULL SALES\_TYPE,

NULL VAT\_RATE,

NULL AV\_COST,

NULL REF\_PACK\_NO,

NULL TRAN\_DATA\_TIMESTAMP

FROM ORDHEAD T,

ORDLOC D,

V\_PACKSKU\_QTY V,

RMS.ITEM\_MASTER ITEM\_MASTER,

RMS.ITEM\_MASTER ITEM\_MASTER1

WHERE T.ORDER\_NO = D.ORDER\_NO

AND T.STATUS = 'A'

AND (ITEM\_MASTER.ITEM = D.ITEM)

AND (ITEM\_MASTER.ITEM\_XFORM\_IND != 'Y')

AND (D.ITEM = V.PACK\_NO)

AND (V.ITEM = ITEM\_MASTER1.ITEM)

AND TO\_DATE(TO\_CHAR(T.ORIG\_APPROVAL\_DATE, 'YYYYMMDD'), 'YYYY-MM-DD') =

(SELECT TO\_DATE(G.PARAM\_VALUE, 'YYYY-MM-DD')

FROM RA\_RMS.RA\_SRC\_CURR\_PARAM\_G G

WHERE G.PARAM\_NAME = 'VDATE')

AND ITEM\_MASTER.PACK\_IND = 'Y'

AND NOT EXISTS (SELECT 1

FROM RMS.IF\_TRAN\_DATA IF

WHERE IF.TRAN\_CODE = 20

AND IF.ITEM = V.ITEM

AND D.ITEM = ITEM\_MASTER.ITEM

AND ITEM\_MASTER.ITEM = V.PACK\_NO

AND IF.REF\_NO\_1 = D.ORDER\_NO

AND IF.LOCATION = D.LOCATION)

UNION

SELECT D.ITEM ITEM,

NULL DEPT,

NULL CLASS,

NULL SUBCLASS,

NULL PACK\_IND,

NULL LOC\_TYPE,

D.LOCATION LOCATION,

TO\_DATE(TO\_CHAR(T.ORIG\_APPROVAL\_DATE, 'YYYYMMDD'), 'YYYY-MM-DD') TRAN\_DATE,

20 TRAN\_CODE,

NULL ADJ\_CODE,

NULL UNITS,

NULL TOTAL\_COST,

NULL TOTAL\_RETAIL,

T.ORDER\_NO REF\_NO\_1,

NULL REF\_NO\_2,

NULL GL\_REF\_NO,

NULL OLD\_UNIT\_RETAIL,

NULL NEW\_UNIT\_RETAIL,

NULL PGM\_NAME,

NULL SALES\_TYPE,

NULL VAT\_RATE,

NULL AV\_COST,

NULL REF\_PACK\_NO,

NULL TRAN\_DATA\_TIMESTAMP

FROM ORDHEAD T, ORDLOC D, RMS.ITEM\_MASTER ITEM\_MASTER

WHERE T.ORDER\_NO = D.ORDER\_NO

AND T.STATUS = 'A'

AND (ITEM\_MASTER.ITEM = D.ITEM)

AND ITEM\_MASTER.PACK\_IND != 'Y'

AND (ITEM\_MASTER.ITEM\_XFORM\_IND != 'Y')

AND TO\_DATE(TO\_CHAR(T.ORIG\_APPROVAL\_DATE, 'YYYYMMDD'), 'YYYY-MM-DD') =

(SELECT TO\_DATE(G.PARAM\_VALUE, 'YYYY-MM-DD')

FROM RA\_RMS.RA\_SRC\_CURR\_PARAM\_G G

WHERE G.PARAM\_NAME = 'VDATE')

AND NOT EXISTS (SELECT 1

FROM RMS.IF\_TRAN\_DATA IF

WHERE IF.TRAN\_CODE = 20

AND IF.ITEM = D.ITEM

AND IF.REF\_NO\_1 = D.ORDER\_NO

AND IF.LOCATION = D.LOCATION);

1. 订货数量修护语句：  
   UPDATE RADM.W\_RTL\_SUPPCM\_IT\_LC\_DY\_F A

SET A.ORDERED\_QTY =

(SELECT B.QTY\_ORDERED + NVL(B.QTY\_CANCELLED, 0)

FROM RMS.ORDLOC@RA\_RMS\_DBLINK B, RADM.W\_PRODUCT\_D C

WHERE A.PURCHASE\_ORDER\_ID = B.ORDER\_NO

AND C.ROW\_WID = A.PROD\_WID

AND C.PROD\_NUM = B.ITEM

AND A.ORDERED\_QTY <> B.QTY\_ORDERED + NVL(B.QTY\_CANCELLED, 0))

WHERE A.ORDERED\_QTY IS NOT NULL

AND A.DT\_WID BETWEEN 120130101000 AND 120131231000;

ODI

1. 修改接口:

SDE\_RetailSupplierComplianceTempLoad\_A,

SDE\_RetailSupplierComplianceTempLoad\_B,

**Old Code:**

DAY\_DT=RA\_RMS.IF\_TRAN\_DATA.TRAN\_DATE

**New Code:**

DAY\_DT=TO\_DATE(TO\_CHAR(RMS.ORDHEAD.EXPIRED\_DATE))

BBG\_ORIG\_APPROVAL\_DATE=TO\_DATE(TO\_CHAR(ORDHEAD.ORIG\_APPROVAL\_DATE,'YYYYMMDD'),'YYYYMMDD')  
BBG\_EXPIRED\_DATE=RMS.CMX\_ORDHEAD.EXPIRED\_DATE

BBG\_TRAN\_DATE=IF\_TRAN\_DATA.TRAN\_DATE

1. 修改接口:  
   SDE\_RetailSupplierComplianceTempLoad\_G1  
   SDE\_RetailSupplierComplianceTempLoad\_G2  
   **Old Code:  
   Null  
   New Code:**BBG\_ORIG\_APPROVAL\_DATE= RTL\_SUPPCM\_A\_TMP.BBG\_ORIG\_APPROVAL\_DATE  
   BBG\_TRAN\_DATE= RTL\_SUPPCM\_A\_TMP.BBG\_TRAN\_DATE

BBG\_EXPIRED\_DATE= RTL\_SUPPCM\_A\_TMP.BBG\_EXPIRED\_DATE

1. 修改接口:  
   SDE\_RetailSupplierComplianceTimelinessLoad\_C

**Old Code:**  
Null  
**New Code:**

BBG\_REFERENCE\_D02=RTL\_SUPPCM\_TL\_B\_TMP.DAY\_DT

BBG\_REFERENCE\_D01=RTL\_SUPPCM\_TL\_B\_TMP.EXPIRED\_DATE

DAY\_DT=RTL\_SUPPCM\_TL\_B\_TMP.EXPIRED\_DATE

SDE\_RetailSupplierComplianceTimelinessTempLoad\_B  
**Old Code:**  
Null  
**New Code:**

ORIG\_APPROVAL\_DATE= RA\_W\_RTL\_SUPPCM.ORIG\_APPROVAL\_DATE

EXPIRED\_DATE= RA\_W\_RTL\_SUPPCM.EXPIRED\_DATE

1. 修改接口：(订货量=订货数量+取消数量)

SDE\_RetailSupplierComplianceTempLoad\_C  
SDE\_RetailSupplierComplianceTempLoad\_D

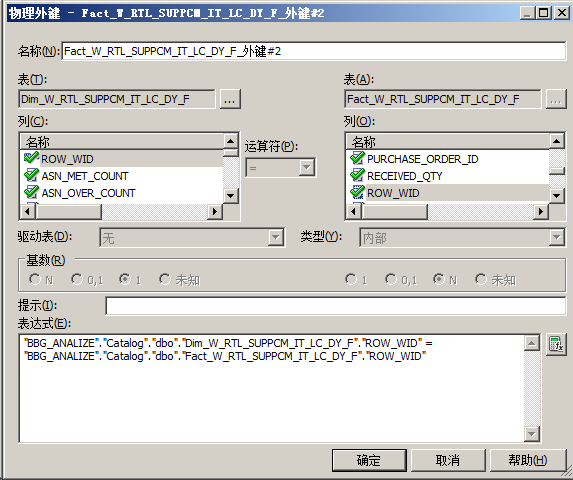
**Old Code：**

ORDERED\_QTY=SUM(ORDLOC.PRESCALED)

**New Code：**  
ORDERED\_QTY=SUM( ORDLOC.QTY\_ORDERED+NVL(ORDLOC.QTY\_CANCELLED,0) )

1. 修改ODI接口：SDE\_RetailSupplierComplianceTempLoad\_J，数据源：W\_RTL\_SUPPCM\_D\_TMP左连接W\_RTL\_SUPPCM\_E\_TMP,W\_RTL\_SUPPCM\_D\_TMP为订单数据，W\_RTL\_SUPPCM\_E\_TMP为收货数据。
2. 修改ODI接口：SIL\_RetailSupplierComplainceFactTempLoad，  
   SHIPMENT\_ID映射为： NVL(STG\_W\_RTL\_SUPPCM\_IT\_LC\_DY\_FS.SHIPMENT\_ID,0)

BIEE RPD

1. RPD中物理层的视图：W\_RTL\_SUPPCM\_IT\_LC\_DY\_FV的BBG\_REFERENCE\_D01、BBG\_REFERENCE\_D02的数据类型修改为DATE.
2. 以W\_RTL\_SUPPCM\_IT\_LC\_DY\_FV为源表创建表别名：Dim\_W\_RTL\_SUPPCM\_IT\_LC\_DY\_F
3. Dim\_W\_RTL\_SUPPCM\_IT\_LC\_DY\_F和FACT\_W\_RTL\_SUPPCM\_IT\_LC\_DY\_F建立连接，字段为ROW\_WID  
   
4. 把Dim\_W\_RTL\_SUPPCM\_IT\_LC\_DY\_F从物理层拖入业务层，放到RA🡪02 Dimension下。然后重命名为：Dim – BBG SUPPCM DATE
5. 在Dim – BBG SUPPCM DATE上创建具有基于级别的层次的维，名称为：BBG SUPPCM DATE.然后放入RA🡪01 Hierarchy下。
6. 在业务层Dim – BBG SUPPCM DATE只保留三列：ROW\_WID,BBG\_REFERENCE\_D01,BBG\_REFERENCE\_D02
7. 在业务层Fact – Retail Supplier Compliance的Sources下的Fact\_W\_RTL\_SUPPCM\_IT\_LC\_DY\_F上设置[内容]中的BBG SUPPCM DATE逻辑维的逻辑级别为：Dim - BBG SUPPCM DATE Detail。
8. 把业务层的BBG\_REFERENCE\_D01,BBG\_REFERENCE\_D02拖入表示层的Retail As Was🡪Supplier Compliance下。
9. 在表示层，BBG\_REFERENCE\_D01命名为BBG EXPIRED DATE,BBG\_REFERENCE\_D02命名为BBG Receive Date。
10. 在RADM.W\_LOCALIZED\_STRING\_G表中定制显示名称。

## SQL script

1. NULL