COMP23111

2017-2018

EX03

9961177

SQL>

SQL> create or replace view a as

- 2 select DISTINCT firstName,lastName
- 3 From CustomerInfo natural join orderCartInfo;

View created.

SQL>

SQL> SELECT * FROM a;

FIRSTNAME LASTNAME ----Ophelia Elsinore John Booker Mary Folio Percy Byron

SQL>

SQL> create or replace view b as

- 2 select code, itemNum, categoryId, qtyInstock
- 3 from InventoryItem natural join category natural join ItemType
- 4 where qtyInstock<25;

View created.

SQL>

SQL> SELECT * FROM b;

CODE	ITE	MNUM	CATEGORYID QTYINS	TOCK
hbk	C2	C	20	
hbk	C2	F	20	
hbk	C2	Н	20	
hbk	C2	P	20	
hbk	C2	SF	20	
ebk	A0	C	15	
ebk	A0	F	15	
ebk	A0	Н	15	
ebk	A0	P	15	
ebk	A0	SF	15	

10 rows selected.

SQL>

SQL> create or replace view c as

- 2 select orderCartId,loginName,firstName,lastName,orderPrice
- 3 from customerInfo natural join orderCartInfo natural join lineItems

4

SQL> select * from c;

ORDI	ERCARTI LOGINNAME	E FIRSTNAME	LASTNAME	ORDERPRICE
1	choizeznyc John	Booker	2.99	
8	choizeznyc John			
3	choizeznyc John			
2	choizeznyc John			
1		Booker		
3		Booker		
3		Booker		
4	choizeznyc John		4.99	
6	choizeznyc John			
5	choizeznyc John		2.99	
7	choizeznyc John		1.99	
	•			ODDEDDDICE
	ERCARTI LOGINNAME 	E FIRSTNAME 	LASTNAME 	ORDERPRICE
1	shkeandco Mary		2.99	
8	shkeandco Mary			
3	2	Folio	5.99	
2	shkeandco Mary	Folio	3.99	
1	shkeandco Mary	Folio	2.99	
3	shkeandco Mary	Folio	2.99	
3	shkeandco Mary	Folio	3.99	
4	shkeandco Mary	Folio	4.99	
6	shkeandco Mary	Folio	6.99	
5	shkeandco Mary	Folio	2.99	
7	shkeandco Mary	Folio	1.99	
ORDI	ERCARTI LOGINNAME	E FIRSTNAME	LASTNAME	ORDERPRICE
1	dramab Ophelia	Elsinore	2.99	
I Q	1	Elsinore	3.99	
8	dramab Ophelia dramab Ophelia	Elsinore	5.99 5.99	
2	dramab Ophelia	Elsinore	3.99	
1	dramab Ophelia	Elsinore	2.99	
3	dramab Ophelia	Elsinore	2.99	
3	dramab Ophelia	Elsinore	3.99	
4	dramab Ophelia	Elsinore	4.99	
6	dramab Ophelia	Elsinore	6.99	
5	dramab Ophelia	Elsinore	2.99	
7	dramab Ophelia	Elsinore	1.99	
,	diamab Opnena	Lismore	1.57	
ORDI	ERCARTI LOGINNAME	E FIRSTNAME	LASTNAME	ORDERPRICE
1	astrab Percy	Byron	2.99	
8	astrab Percy	Byron	3.99	
3	astrab Percy	Byron	5.99	
2	astrab Percy	Byron	3.99	
1	astrab Percy	Byron	2.99	
3	astrab Percy	Byron	2.99	
3	astrab Percy	Byron	3.99	
4	astrab Percy	Byron	4.99	
	-	-		

6	astrab	Percy	Byron	6.99
5	astrab	Percy	Byron	2.99
7	astrab	Percy	Byron	1.99

44 rows selected.

SQL>

SQL> create or replace view d as

- 2 select loginName, firstName, lastName, sum(orderPrice) sum
- 3 from customerInfo natural join orderCartInfo natural join lineItems
- 4 group by loginName, firstName, lastName;

View created.

SQL> select * from d;

LOGINNAME FIRS	ГNАМЕ	LASTNAME	SUM
shkeandco Mary	Folio	43.89	
choizeznyc John	Booker	43.89	
astrab Percy	Byron	43.89	
dramab Ophelia	Elsinore	43.89	

SQL>

SQL> create or replace view e as

- 2 select distinct loginName, count(orderCartId)cartnum
- 3 from orderCartInfo natural join customerInfo
- 4 group by loginName;

View created.

SQL>

SQL> select loginName,

- 2 CASE
- 3 WHEN cartnum > 2 THEN 'BR-1 violated'
- 4 ELSE 'BR-1 satisfied'
- 5 END as case1
- 6 from e;

LOGINNAME CASE1

astrab BR-1 violated choizeznyc BR-1 violated dramab BR-1 violated shkeandco BR-1 violated

SQL>

SQL> select itemNum,itemSize,itemColor,count(itemNum)as count

- 2 from inventoryItem natural join itemType
- 3 group by itemColor,itemSize,itemNum;

ITEMNUM ITEMSIZE ITEMCOLOR

COUNT

A3	2 black	1				
A0	4 green	2				
A2	3 green	1				
A0	3 black	1				
B1	4 white	1				
C1	4 black	1				
C2	3 black	2				
7 rows select	ed.					
SQL> SQL> select 2 CASE 3 WHEN	count > 1 THEN 'BR	-2 violated'				
4 ELSE 'E	BR-2 satisfied'	2 violuted				
5 END as c	ase1					
6 from (
 select itemNum,itemSize,itemColor,count(itemNum)as count from inventoryItem natural join itemType group by itemColor,itemSize,itemNum 						
10);						
CASE1						
BR-2 satisfie	d					
BR-2 violate	d					
BR-2 satisfie	d					
BR-2 satisfie	d					
BR-2 satisfie	d					
BR-2 satisfie	d					
BR-2 violated						
7 rows select	ed.					
SQL>						
SQL>						
SQL> select	itemNum,itemColor,	itemSize,				
2 CASE						
3 WHEN	count > 1 THEN 'BR	-2 violated'				
4 ELSE 'E	3R-2 satisfied'					
5 END as c	ease1					
6 from (
7 select ite	emNum,itemSize,iter	nColor,count(itemNum)as count				
8 from inv	ventoryItem natural jo	oin itemType				
9 group by	y itemColor,itemSize	e,itemNum				
10)						
11 where co	ount>1;					
ITEMNUM	ITEMCOLOR	ITEMSIZE CASE1				
10 ~~~	n 4 DD 2	violated				

A0 green 4 BR-2 violated

```
SQL>
SQL>
SQL>
        CREATE or replace TRIGGER tr price before insert or update on itemType for each row
 2
      declare minimum float;
 3
      begin
       select min(price)
 4
       into minimum
 5
       from itemType;
 6
       if :new.price > 4*minimum
 7
 8
    then
 9
    raise application error (-20000, 'new price can not over 4 times min old price');
10
       END IF;
11
      end;
12
      /
Trigger created.
SQL>
SQL> select * from itemType;
ITEMNUM NAME
                                  PRICE BELONGSTO
PICTURE
------
A0
       The Anarchy of Mask
***
                              10.99 P
A1
       The Butler Did
                             11.99 C
       The Abolished Man
A2
                               15.99 SF
ITEMNUM NAME
PICTURE
                                  PRICE BELONGSTO
A3
      Lyrical Bullets
                              20.99 P
+-+-
      The Postlude
B1
=\=\=
                               34.99 P
C1
      The August of Guns
**__
                              10.99 H
```

C2

black

ITEMNUM NAME

3 BR-2 violated

P	T	\bigcap'	\mathbf{T}		R	Ε
1	т,	\sim	1	\cup	1/	ட

PRICE BELONGSTO

C2The Expectant Mirror

^_^

12.99 H

7 rows selected.

SQL>

SQL> insert into itemType values ('D2', 'awefawef', '---', 1000, 'C'); insert into itemType values ('D2', 'awefawef', '---', 1000, 'C')

ERROR at line 1:

ORA-20000: new price can not over 4 times min old price

ORA-06512: at "MBAXAQZ2.TR PRICE", line 8

ORA-04088: error during execution of trigger 'MBAXAQZ2.TR PRICE'

SQL> select * from itemType;

ITEMNUM NAME

PICTU	JRE	PRICE BELONGSTO
A0 ***	The Anarchy of Mask	10.99 P

The Butler Did **A**1

11.99 C

The Abolished Man A2

15.99 SF

ITEMNUM NAME

PICTURE		PRICE BELONGSTO
A3 +-+-	Lyrical Bullets	20.99 P
B1 =\=\=	The Postlude	34.99 P
C1	The August of Guns	

**__

10.99 H

ITEMNUM NAME

PICTURE PRICE BELONGSTO

C2The Expectant Mirror 12.99 H 7 rows selected. SQL> insert into itemType values ('D3', 'awefawef', '---', 1, 'C'); 1 row created. SQL> select * from itemType; ITEMNUM NAME -----**PICTURE** PRICE BELONGSTO A0The Anarchy of Mask *** 10.99 P The Butler Did **A**1 11.99 C ---The Abolished Man A2 15.99 SF ITEMNUM NAME **PICTURE** PRICE BELONGSTO A3 Lyrical Bullets +-+-20.99 P The Postlude B1 =\=\= 34.99 P C1 The August of Guns **__ 10.99 H ITEMNUM NAME **PICTURE** PRICE BELONGSTO -----C2The Expectant Mirror ^_^ 12.99 H D3awefawef

1 C

8 rows selected.

```
SQL>
SQL> update itemType
2 set price = 1
3 where itemNum = 'C2';
update itemType
ERROR at line 1:
ORA-04091: table MBAXAQZ2.ITEMTYPE is mutating, trigger/function may not see it
ORA-06512: at "MBAXAQZ2.TR PRICE", line 3
ORA-04088: error during execution of trigger 'MBAXAQZ2.TR PRICE'
SQL> select * from itemType;
ITEMNUM NAME
PICTURE
                             PRICE BELONGSTO
A0
      The Anarchy of Mask
***
                          10.99 P
      The Butler Did
A1
                         11.99 C
      The Abolished Man
A2
                           15.99 SF
ITEMNUM NAME
PICTURE
                             PRICE BELONGSTO
A3
     Lyrical Bullets
+-+-
                          20.99 P
     The Postlude
B1
=\=\=
                           34.99 P
      The August of Guns
C1
**__
                          10.99 H
ITEMNUM NAME
PICTURE
                             PRICE BELONGSTO
C2
     The Expectant Mirror
^_^
                          12.99 H
D3
      awefawef
                           1 C
```

8 rows selected. SQL> SQL> update itemType 2 set price = 1003 where itemNum = 'C2'; update itemType ERROR at line 1: ORA-04091: table MBAXAQZ2.ITEMTYPE is mutating, trigger/function may not see it ORA-06512: at "MBAXAQZ2.TR PRICE", line 3 ORA-04088: error during execution of trigger 'MBAXAQZ2.TR PRICE' SQL> select * from itemType; ITEMNUM NAME PICTURE PRICE BELONGSTO A0The Anarchy of Mask *** 10.99 P The Butler Did **A**1 11.99 C The Abolished Man A2 15.99 SF ITEMNUM NAME **PICTURE** PRICE BELONGSTO A3 Lyrical Bullets 20.99 P +-+-The Postlude B1 34.99 P =/=/= C1 The August of Guns 10.99 H ITEMNUM NAME

PICTURE PRICE BELONGSTO

C2 The Expectant Mirror

^_^ 12.99 H

awefawef D3

1 C

8 rows selected.

SQL>

SQL> SQL> spool off