
Posted by [anbsoft](#) on Tue, 20 Sep 2022 13:47:39 GMT

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```
CREATE DATABASE 'Base2.fdb' USER 'SYSDBA' PASSWORD 'masterkey';
```

```
CREATE TABLE Klient
(
  ID      Integer      NOT NULL,
  Name    VarChar(50),
  Dolg    NUMERIC(15,2) DEFAULT 0,
  PRIMARY KEY (ID)
);
```

```
CREATE GENERATOR GEN_Klient;
```

```
SET TERM ^ ;
CREATE TRIGGER SET_Klient FOR Klient
ACTIVE BEFORE INSERT POSITION 0
AS
declare variable IDTemp Integer;
BEGIN
  IF ((NEW.ID=0) OR (NEW.ID IS NULL)) THEN BEGIN
    NEW.ID=GEN_ID(GEN_Klient,1);
  END
END^
SET TERM ; ^
```

```
INSERT INTO Klient (ID, Name, Dolg) VALUES (0,'Test', 0);
```

```
CREATE TABLE Zatrata  
(  
ID          Integer      NOT NULL,  
Parent     Integer      default 0,  
IDKlient   Integer,  
State      Integer      default 0,  
Suma       NUMERIC(15,2) DEFAULT 0,  
Info       VarChar(100),  
Test1      Integer,  
PRIMARY KEY (ID)  
);
```

```
CREATE GENERATOR GEN_Zatrata;  
CREATE GENERATOR GEN_Test;
```

```
SET TERM ^ ;  
CREATE TRIGGER SET_Zatrata FOR Zatrata  
ACTIVE BEFORE INSERT POSITION 0  
AS  
BEGIN  
IF ((NEW.ID=0) OR (NEW.ID IS NULL)) THEN BEGIN  
NEW.ID=GEN_ID(GEN_Klient,1);  
END  
END^
```

```
CREATE TRIGGER Edit_Zatrata FOR Zatrata  
ACTIVE BEFORE UPDATE POSITION 0  
AS  
declare variable S1 VarChar(20);  
declare variable S2 VarChar(20);  
BEGIN  
IF ((OLD.State<>1) AND (NEW.State=1)) THEN BEGIN  
select Dolg from klient where (ID=NEW.IDKlient) into :S1;  
UPDATE Klient SET Dolg=Dolg-OLD.Suma WHERE (ID=NEW.IDKlient);  
select Dolg from klient where (ID=NEW.IDKlient) into :S2;  
NEW.Info=' - ' || coalesce(OLD.Info, '') || ' ' || S1 || ' ' || S2;  
NEW.Test1=GEN_ID(GEN_Test,1);  
END  
IF ((OLD.State=1) AND (NEW.State<>1)) THEN BEGIN  
UPDATE Klient SET Dolg=Dolg+OLD.Suma WHERE (ID=NEW.IDKlient);  
END  
END^
```

```
CREATE TRIGGER Edit_Doc FOR Zatrata  
ACTIVE AFTER UPDATE POSITION 0
```

```

AS
BEGIN
  IF ((NEW.Parent<>0) AND (NEW.State<>OLD.State)) THEN BEGIN
    UPDATE Zatrak SET State=NEW.State WHERE (Parent=NEW.Parent) AND
(State<>NEW.State) AND (ID<>NEW.ID);
  END
END^

```

```
SET TERM ; ^
```

```

INSERT INTO Zatrak (ID, Parent, IDKlient, State, Suma) VALUES (1,1,1,0,10);
INSERT INTO Zatrak (ID, Parent, IDKlient, State, Suma) VALUES (2,1,1,0,30);
INSERT INTO Zatrak (ID, Parent, IDKlient, State, Suma) VALUES (3,1,1,0,50);
INSERT INTO Zatrak (ID, Parent, IDKlient, State, Suma) VALUES (4,1,1,0,200);

```

```
UPDATE Zatrak SET State=1 where (ID=1);
```

```
SELECT * FROM Klient;
```

```

ID NAME      DOLG
== =====
1 Test      -290.00

```

```
Select * FROM Zatrak ORDER BY ID;
```

```

ID PARENT IDKLIENT STATE SUMA INFO          TEST1
== =====
1  1      1  1 10.00 - 0.00 -10.00    1
2  1      1  1 30.00 - -10.00 -40.00    2
3  1      1  1 50.00 - -40.00 -90.00    3
4  1      1  1 200.00 - -90.00 -290.00  4

```

```
COMMIT WORK;
```

```
SELECT * FROM Klient;
```

```

ID NAME      DOLG
== =====
1 Test      -740.00

```

```
Select * FROM Zatrak ORDER BY ID;
```

```

ID PARENT IDKLIENT STATE SUMA INFO          TEST1
== =====
1  1      1  1 10.00 - 0.00 -10.00    1
2  1      1  1 30.00 - -10.00 -40.00    2

```

3	1	1	1	50.00	-	-490.00	-540.00	6
4	1	1	1	200.00	-	-540.00	-740.00	7

Posted by [SD](#) on Tue, 20 Sep 2022 21:37:16 GMT
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Posted by [fraks](#) on Wed, 21 Sep 2022 01:56:17 GMT
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Posted by [fraks](#) on Wed, 21 Sep 2022 02:23:32 GMT
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Select * FROM Zatrata ORDER BY ID;

ID	PARENT	IDKLIENT	STATE	SUMA	INFO	TEST1
1	1	1	1	10.00	- 0.00 -10.00	1
2	1	1	1	30.00	- -10.00 -40.00	2
3	1	1	1	50.00	- -40.00 -90.00	3
4	1	1	1	200.00	- -90.00 -290.00	4

COMMIT WORK;

SELECT * FROM Klient;

ID	NAME	DOLG
1	Test	-740.00

Select * FROM Zatrata ORDER BY ID;

ID	PARENT	IDKLIENT	STATE	SUMA	INFO	TEST1
1	1	1	1	10.00	- 0.00 -10.00	1
2	1	1	1	30.00	- -10.00 -40.00	2
3	1	1	1	50.00	- -490.00 -540.00	6
4	1	1	1	200.00	- -540.00 -740.00	7

Posted by [fraks](#) on Wed, 21 Sep 2022 02:30:05 GMT
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ZATRAT.PARENT
ZATRAT.STATE

Posted by [fraks](#) on Wed, 21 Sep 2022 02:43:51 GMT
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INSERT!

Posted by [fraks](#) on Wed, 21 Sep 2022 03:16:52 GMT
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UPDATE Zatrata SET State=1 where (ID=1);

Posted by [fraks](#) on Wed, 21 Sep 2022 04:08:00 GMT
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```
CREATE GENERATOR GEN_ZATRAT_LOG_ID;
```

```
CREATE TABLE ZATRAT_LOG (  
  ID    INTEGER NOT NULL,  
  IDZ   INTEGER,  
  PARENT INTEGER,  
  IDKLIENT INTEGER,  
  STATE INTEGER,  
  SUMA  NUMERIC(15,2),  
  INFO  VARCHAR(100),  
  TEST1 INTEGER,  
  A     VARCHAR(5)  
);
```

```
ALTER TABLE ZATRAT_LOG ADD PRIMARY KEY (ID);
```

```
SET TERM ^ ;
```

```
CREATE OR ALTER TRIGGER ZATRAT_LOG_BI FOR ZATRAT_LOG  
ACTIVE BEFORE INSERT POSITION 0
```

```
as  
begin  
  if (new.id is null) then  
    new.id = gen_id(gen_zatrat_log_id,1);  
end  
^
```

```
CREATE OR ALTER TRIGGER ZATRAT_AIUD_LOG FOR ZATRAT  
ACTIVE AFTER INSERT OR UPDATE OR DELETE POSITION 0
```

```
as  
declare variable sa varchar(3);  
begin  
  sa = '';  
  if (inserting) then sa = sa || 'I';  
  if (updating ) then sa = sa || 'U';  
  if (deleting ) then sa = sa || 'D';  
  --  
  insert into ZATRAT_LOG (idz, parent, idklient, state, suma, info, test1, a)  
  values(NEW.id, NEW.parent, NEW.idklient, NEW.state, NEW.suma, NEW.info, NEW.test1,  
:sa);  
end  
^
```

```
SET TERM ; ^
```

Posted by [fraks](#) on Wed, 21 Sep 2022 04:10:35 GMT
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Posted by [anbsoft](#) on Wed, 21 Sep 2022 09:04:13 GMT
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```
UPDATE Zatrak SET State=1 where (ID=1);
```

```
UPDATE Zatrak SET State=1 where (ID=3);
```

```
"%ProgramFiles%\Firebird\Firebird_4_0\isql" -e -s 3 -input base4.sql -output Result4.txt -m
```

Posted by [SD](#) on Wed, 21 Sep 2022 12:13:50 GMT
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Posted by [kdv](#) on Wed, 21 Sep 2022 21:46:37 GMT

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```
CREATE TRIGGER Edit_Doc FOR Zatrak
ACTIVE AFTER UPDATE POSITION 0
AS
BEGIN
  IF ((NEW.Parent<>0) AND (NEW.State<>OLD.State)) THEN
    BEGIN
      UPDATE Zatrak SET State=NEW.State WHERE (Parent=NEW.Parent) AND
(State<>NEW.State) AND (ID<>NEW.ID);
    END
  END
END
```

Posted by [sim_84](#) on Thu, 22 Sep 2022 08:21:55 GMT

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Posted by [fraks](#) on Fri, 23 Sep 2022 07:57:17 GMT
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Posted by [basid](#) on Fri, 23 Sep 2022 08:12:16 GMT
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Posted by [fraks](#) on Mon, 26 Sep 2022 06:08:58 GMT
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Posted by [sim_84](#) on Mon, 26 Sep 2022 06:39:45 GMT
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Posted by [hvlad](#) on Mon, 26 Sep 2022 07:26:42 GMT
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Posted by [anbsoft](#) on Tue, 27 Sep 2022 09:37:40 GMT
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Dolg=0

(1,1,0,0) Dolg=40

(1,1,1,0) Dolg=90

(1,1,1,1) Dolg=290

Posted by [hvlad](#) on Tue, 27 Sep 2022 10:10:15 GMT
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Dolg=0

(1,1,0,0) Dolg=40

(1,1,1,0) Dolg=90

(1,1,1,1) Dolg=290

Posted by on Tue, 27 Sep 2022 10:12:14 GMT
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“Cursor Stability” Effects

Posted by [sim_84](#) on Tue, 27 Sep 2022 12:06:57 GMT
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UPDATE Zatrak SET State=NEW.State WHERE (Parent=NEW.Parent) AND (State<>NEW.State)

AND (ID<>NEW.ID);

FOR

SELECT *

FROM Zatrak

WHERE (Parent=NEW.Parent) AND (State<>NEW.State) AND (ID<>NEW.ID)

AS CURSOR C

DO

UPDATE SET State=NEW.State WHERE CURRENT OF C;

Posted by [anbsoft](#) on Tue, 27 Sep 2022 12:49:32 GMT

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