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Posted by            on Sun, 13 Nov 2022 20:58:52 GMT

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```
CREATE GENERATOR GEN_TBL_MAST_ID;
```

```
CREATE TABLE TBL_MAST (  
  ID   INTEGER NOT NULL,  
  NAME VARCHAR(20) NOT NULL  
);
```

```
ALTER TABLE TBL_MAST ADD CONSTRAINT PK_TBL_MAST PRIMARY KEY (ID);
```

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

```
CREATE GENERATOR GEN_TBL_DETAIL_ID;
```

```
CREATE TABLE TBL_DETAIL (  
  ID   INTEGER NOT NULL,  
  FK_MAST INTEGER,  
  NAME  VARCHAR(30)  
);
```

```
ALTER TABLE TBL_DETAIL ADD CONSTRAINT PK_TBL_DETAIL PRIMARY KEY (ID);  
ALTER TABLE TBL_DETAIL ADD CONSTRAINT FK_TBL_DETAIL_1 FOREIGN KEY  
(FK_MAST) REFERENCES TBL_MAST (ID) ON DELETE SET NULL;
```

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

```
^  
SET TERM ; ^
```

```
INSERT INTO TBL_MAST (ID, NAME) VALUES (1, 'master1');  
INSERT INTO TBL_MAST (ID, NAME) VALUES (2, 'master2');
```

```
INSERT INTO TBL_DETAIL (ID, FK_MAST, NAME) VALUES (1, 1, 'val_1');  
INSERT INTO TBL_DETAIL (ID, FK_MAST, NAME) VALUES (2, 2, 'val_2');  
INSERT INTO TBL_DETAIL (ID, FK_MAST, NAME) VALUES (3, NULL, 'val_null');
```

```
SELECT  
  M.ID MAST_ID,  
  M.NAME MAST_NAME,  
  D.ID DET_ID,  
  D.FK_MAST FK,  
  D.NAME DET_NAME  
FROM TBL_DETAIL D  
  INNER JOIN TBL_MAST M ON (D.FK_MAST = M.ID)
```