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Default constraint in sql server - Part 4

In Part 3 of this video series, we have seen how to create tables (tblPerson and tblGender) and enforce primary and foreign key constraints. **Please watch Part 3, before continuing with this session.**



tblPerson				tblGender	
ID	Name	Email	GenderID	ID	Gender
1	Jade	j@j.com	2	1	Male
2	Mary	m@m.com	3	2	Female
3	Martin	ma@ma.com	1	3	Unknown
4	Rob	r@r.com	NULL		
5	May	may@may.com	2		
6	Kristy	k@k.com	NULL		

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Adding a default constraint - P...



In this video, we will learn adding a Default Constraint. A column default can be specified using Default constraint. The default constraint is used to insert a default value into a column. The default value will be added to all new records, if no other value is specified, including NULL.

Altering an existing column to add a default constraint:

```
ALTER TABLE { TABLE_NAME }  
ADD CONSTRAINT { CONSTRAINT_NAME }
```

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```
DEFAULT { DEFAULT_VALUE } FOR { EXISTING_COLUMN_NAME }
```

Adding a new column, with default value, to an existing table:

```
ALTER TABLE { TABLE_NAME }  
ADD { COLUMN_NAME } { DATA_TYPE } { NULL | NOT NULL }  
CONSTRAINT { CONSTRAINT_NAME } DEFAULT { DEFAULT_VALUE }
```

The following command will add a default constraint, DF_tblPerson_GenderId.

```
ALTER TABLE tblPerson  
ADD CONSTRAINT DF_tblPerson_GenderId  
DEFAULT 1 FOR GenderId
```

The insert statement below does not provide a value for GenderId column, so the default of 1 will be inserted for this record.

```
Insert into tblPerson(ID,Name,Email) values(5,'Sam','s@s.com')
```

On the other hand, the following insert statement will insert NULL, instead of using the default.

```
Insert into tblPerson(ID,Name,Email,GenderId) values (6,'Dan','d@d.com',NULL)
```

To drop a constraint

```
ALTER TABLE { TABLE_NAME }  
DROP CONSTRAINT { CONSTRAINT_NAME }
```

In the next session, we will learn about cascading referential integrity

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Anusha B February 26, 2014 at 11:33 PM

is it possible to change the default value for existng default constraint if yes please explain..

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Anonymous May 17, 2014 at 5:19 AM

Yes, we can by altering the constraint.

Ex:ALTER TABLE tblPerson

ADD CONSTRAINT DF_tblPerson_GenderId

DEFAULT 3 FOR GenderId



Asif Sulaiman Syed September 17, 2015 at 3:26 AM

To do that we have to drop the existing constraint and create a new one



Pradeep Raturi September 16, 2017 at 10:57 PM

First we have to drop existing default constraint



MAN POWER March 17, 2019 at 6:36 AM

I'M FACING THIS ISSUE:

Msg 1752, Level 16, State 0, Line 1

Column 'GenderId' in table 'tblPerson' is invalid for creating a default constraint.

Msg 1750, Level 16, State 0, Line 1

Could not create constraint. See previous errors.

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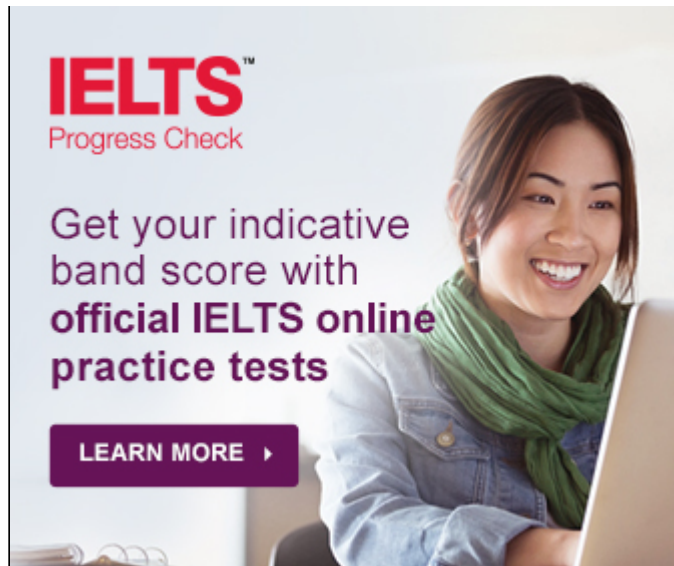
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CK August 9, 2015 at 1:17 AM

What if we delete the default value 3 from tblGender and rule of referential integrity-set default is set for the foreign key in tblPerson ?

Reply

Replies



raju August 1, 2016 at 9:36 PM

The database integrity will be lost . so it doesn't allow u to delete that default value 3 in the tblGender .. the error will be raised ..

Reply



Sk Asraf February 23, 2016 at 6:47 AM

Update tbl_Sold1 Set
Total = Quantity * price

Reply



Nazim Shaikh August 28, 2016 at 10:13 PM

Hi Venkat,

Is der any restriction on insert command after adding default constraint and foreign key constraint

i get this error "The INSERT statement conflicted with the FOREIGN KEY constraint "FK_tblPerson_GenderID". The conflict occurred in database "Sample", table "dbo.tblGender", column 'ID'." when i try to insert the values after adding default constraint

[Reply](#)



Unknown February 21, 2017 at 10:20 AM

IF we are adding multiple records to the table, without providing a value for GenderID, will it be adding 1 for all the fields? If so, since GenderID is a primary key, it has to be a unique value, so how does this work?

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Anonymous December 26, 2017 at 1:51 AM

Gender ID is primary key in tblGender table, where as value you are inserting in tblPerson table.

-- Rajeev Ranjan Tiwary

[Reply](#)



Sajjad Bhatti March 7, 2017 at 8:41 PM

Sir can we use more than one default constraints for a single table either they work correctly or not

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[Replies](#)



Suresh Molabanti April 26, 2017 at 2:05 AM

No,Restrictions .Depending on your requirement what u want u can..

Reply



Unknown January 17, 2018 at 11:27 PM

Hi Vekant ,

Please upload Videos on SSIS,SSRS,

Thanks

Reply



Unknown September 22, 2018 at 6:34 AM

Hi Vekant ,

Please upload Videos on SSIS,SSRS,

Thanks

Reply



Nikki April 5, 2019 at 8:36 AM

how to alter column to set primary key in existing table

Reply

Replies

Anonymous August 27, 2019 at 1:55 AM

alter table tableName

add primary key (columnName)

Make sure you don't have any duplicate data in the column before adding the constraint to it. Hope this helps.

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