# TP1- Administration des BDD Sous SQL Server

## **Etudiant:**

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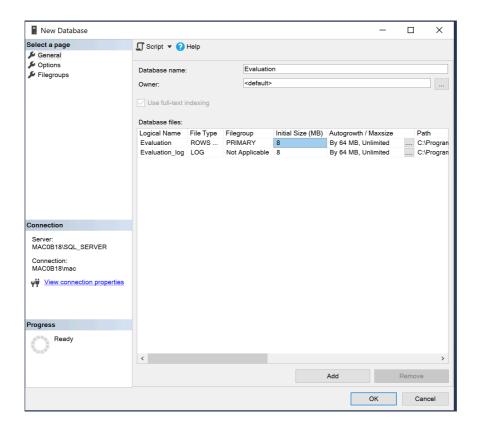
filiere: GL

**Formateur:** 

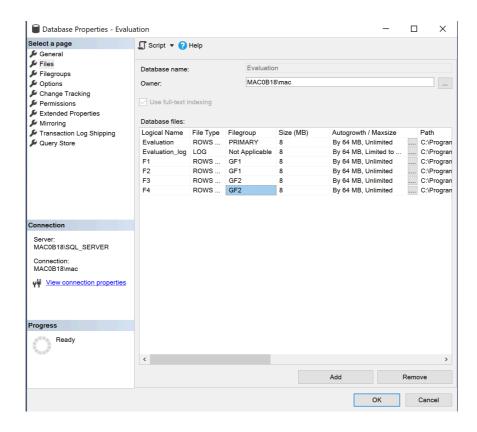
Pr. A. ETTALBI

25 mars 2022

## 1. Creer la BDD



## Creation des fichiers secondaires

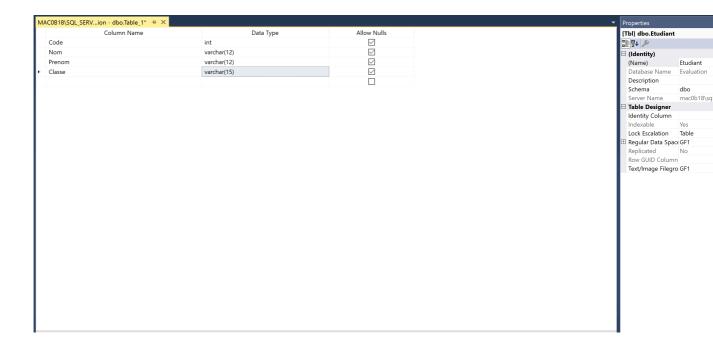


# Rendre le GF1 le groupe de fichiers par défaut

Name	Files	Read-Only	Default	Autogrow All Files
PRIMARY	1			
GF1	2		$\checkmark$	
GF2	2			
J1 2	_			

# F1, F2, F3, F4 a une extension .ndf

# 2. Creation des tables



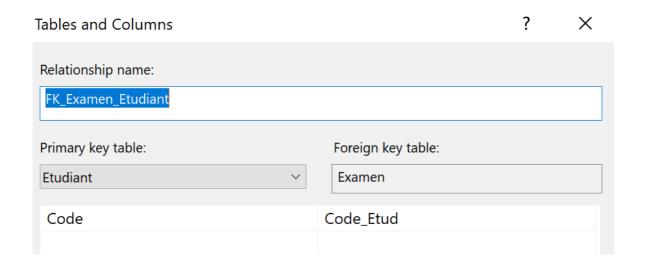


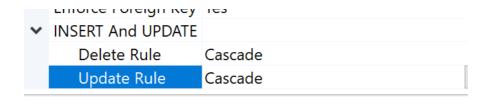


- 3. La table Examen sera stockée sur les deux fichiers F3 et F4
- 4. Const1, Const2, Const3:

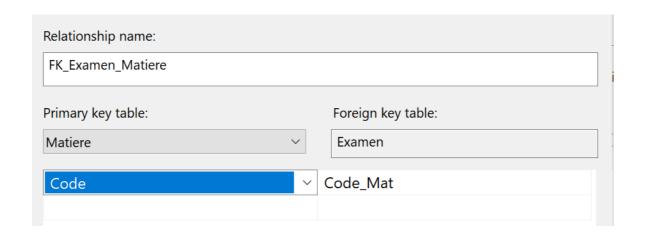


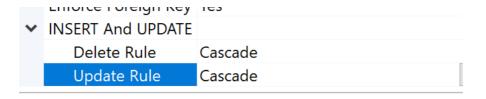
## Const4:



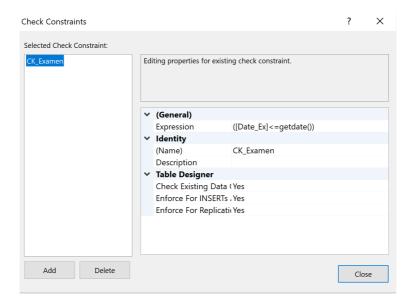


#### Const5:

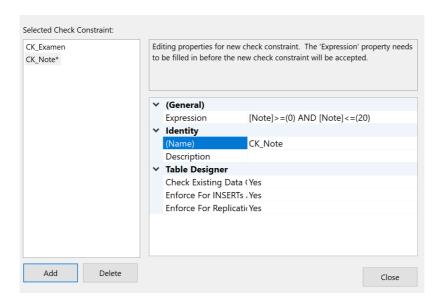




#### Const6:



# Const7:



5.

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	Code	Nom	Preno	Classe	
	1	ABIDI	AHMED	2GL-G1	
	2	BENB	SAID	2GL-G3	
	3	BOUS	HALI	2GL-G1	
*	NULL	NULL	NULL	NULL	

6.

	Code	Nom	Coef
	M2.1	Reseaux Info	3
	M2.2	Administration	3
	M2.3	Communication	2
*	NULL	NULL	NULL

7.

	Code	Code	Code	Date	Note
	1	1	M2.1	2022	10,00
	2	1	M2.2	2022	19,00
	3	1	M2.3	2022	17,00
	4	2	M2.1	2022	13,00
	5	2	M2.2	2022	15,40
	6	2	M2.3	2022	16,00
	7	3	M2.1	2022	16,00
	8	3	M2.2	2022	14,00
•	9	3	M2.3	2022	18,00
*	NULL	NULL	NULL	NULL	NULL

A}√

B}**√** 

C) violation de la contrainte primary key

D) 🗸

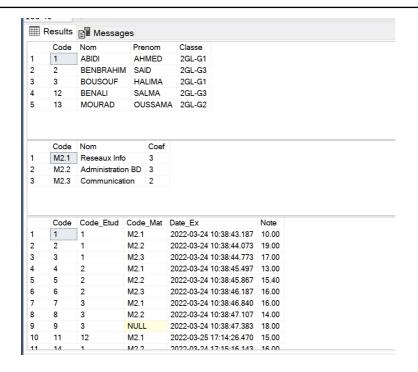
E)X violation de la contrainte foreign key FK\_Matiere

F)X violation de la contrainte note (note between 0 and 20)

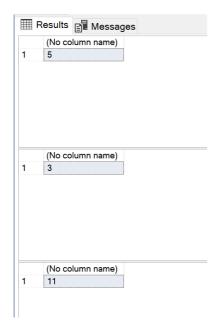
G)**√** 

H) violation de la contrainte date\_exam (Date\_Ex <= getdate())

```
Select * from Etudiant;
Select * from Matiere;
Select * from Examen;
```



```
Use Evaluation
GO
Select count(*) from Etudiant;
Select count(*) from Matiere;
Select count(*) from Examen;
```



UPDATE Examen SET Code= Code+100;

DELETE FROM Matière Where Code='M2.1';

12.

 ${\tt SELECT\ dbo.Examen.Code,\ dbo.Etudiant.Code\ as\ Code\_Etud\ ,\ Code\_Mat,}$ 

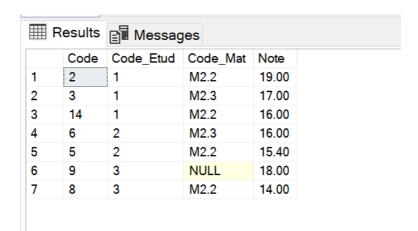
Note

FROM dbo.Examen, dbo.Etudiant

WHERE dbo.Etudiant.Code = Code\_Etud AND dbo.Etudiant.Code

IN(1,2,3)

ORDER BY Code\_Etud, Note desc



SELECT Etudiant.Code,count(Examen.Code) as 'Nombre exam', min(Note)

as 'Note Min', max(Note) as 'Note Max'

FROM Etudiant, Examen

Where Examen.Code\_Etud = Etudiant.Code

**GROUP BY Etudiant.Code** 

		_		
	Code	Nombre exam	Note Min	Note Max
1	1	3	16.00	19.00
2	2	2	15.40	16.00
3	3	2	14.00	18.00

14.

**UPDATE** Examen

SET Note = 14

WHERE Code\_Etud = 2 and Code\_Mat = 'M1.2'

15.

**DELETE FROM Examen** 

WHERE Note between 0 and 8

16.

SELECT Code\_Etud, (sum(Note\*Coef)/Sum(Coef))

FROM Examen, Matiere

WHERE Examen.Code\_Mat = Matiere.Code

GROUP BY Code\_Etud

	Code_Etud	(No column name)
1	1	17.375000
2	2	15.640000
3	3	14.000000

SELECT min(Note) as note\_min, max(Note) as note\_max FROM Examen

	note_min	note_max
1	14.00	19.00

#### 18.

SELECT et.\*, Note

FROM Examen ex, Etudiant et

WHERE Code\_Etud= et.code and (note=(Select min(note) FROM Examen)

OR note=(Select max(note) FROM Examen))

	Code		Prenom	Classe	Note
1	1	ABIDI	AHMED	2GL-G1	19.00
2	3	BOUSOUF	HALIMA	2GL-G1	14.00

## 19.

SELECT mat.\*, Note

FROM Examen ex, matiere mat

WHERE mat.code = ex.Code\_Mat and ( note =(Select min(note) FROM

Examen) OR note=(Select max(note) FROM Examen))

	Code		Coef	Note
1	M2.2	Administration BD	3	19.00
2		Administration BD	3	14.00

# **DELETE FROM Examen**

WHERE note=(Select min(note) FROM Examen) OR note=(Select max(note)

FROM Examen)