

TP1 Administration sql server

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Groupe : GL3

1- Databases -> New Database

Dans l'onglet « General », dans le champ Name on saisit « Evaluation ».

Dans l'onglet « Filegroups », on affecte les fichiers F1, F2, F3 et F4 à leurs groupes respectifs.

2- Databases -> Evaluation -> Tables -> New Table

Puis on saisit les noms des colonnes avec leurs types et on nomme la table après la sauvgade.

3- La table sera répartie dans les deux fichiers F3 et F4.

4-

Cont1: Databases -> Evaluation -> Tables -> Etudiant -> Code -> Modify

Une nouvelle fenêtre apparaît. Dans la barre en haut à gauche, on clique sur la cellule correspondant à notre clé.

Cont2: Databases -> Evaluation -> Tables -> Matière -> Code -> Modify

Cont3: Databases -> Evaluation -> Tables -> Examen -> Code -> Modify

Cont4: Databases -> Evaluation -> Tables -> Examen -> Code_Etud -> relationships -> add

Cont5: Databases -> Evaluation -> Tables -> Examen -> Code_Mat -> relationships -> add

Cont6: Databases -> Evaluation -> Tables -> Examen -> Code_Ex -> CheckContrainte -> add
([Date_Ex]<=getdate()).

Cont7: Databases -> Evaluation -> Tables -> Examen -> Note -> CheckContrainte -> add puis on introduit: ([Note]>=(0) AND [Note]<=(20)).

5- USE Evaluation

GO

```
INSERT INTO Etudiant VALUES (1,'ABIDI','AHMED','2GL-G1'), (2,'BENBRAHIM','SAID','2GL-G3'),(3,'BOUSOUF','HALIMA','2GL-G1') GO
```

6- USE Evaluation

GO

```
INSERT INTO Matière VALUES ('M2.1','Réseaux Info',3), ('M2.2 ','Administration BD',3),('M2.3','Communication',2) GO
```

7- USE Evaluation

```
INSERT INTO Examen VALUES
(1,'M2.1', '2016-04-18', 17),
(1,'M2.2','2016-04-19', 18),
(1,'M2.3', '2016-04-20', 14),
(2,'M2.1', '2016-04-18', 5),
(2,'M2.2', '2016-04-19', 9),
(2,'M2.3','2016-04-20', 11),
(3,'M2.1', '2016-04-18', 20),
(3,'M2.2', '2016-04-19', 19),
(3,'M2.3', '2016-04-20', 19);
GO
```

8- Tests d'insertions

```
INSERT INTO Etudiant VALUES (12,'BENALI','SALMA','2GL-G3')
```

OUI

```
INSERT INTO Etudiant VALUES (13,'MOURAD','OUSSAMA','2GL-G2')
```

OUI

```
INSERT INTO Etudiant VALUES (2,'TOUHAMI','BADR','2GL-G1')
```

NON, Violation of Primary Key Constraint

```
INSERT INTO Examen (Code_Etud,Code_Mat,Note) VALUES (12,'M2.1',15)
```

OUI

```
INSERT INTO Examen (Code_Etud,Code_Mat,Note) VALUES (12,'M2.5',18)
```

NON, Violation de la contrainte « FK_Examen_Matière »

```
INSERT INTO Examen (Code_Etud,Code_Mat,Note) VALUES (12,'M2.2',21)
```

NON, Violation de la contrainte « Note»

```
INSERT INTO Examen (Code_Etud,Code_Mat, Date_Ex,Note) VALUES (3,'M2.2',getdate()-1,16)
```

OUI

```
INSERT INTO Examen (Code_Etud,Code_Mat,Date_Ex,Note) VALUES (12,'M2.1',getdate()+1,15)
```

NON, Violation de la contrainte « Date_Ex »

9-

Use Evaluation

GO

Select * from Etudiants;

Select * from Matière;

Select * from Examen;

10-

Use Evaluation

GO

```
Select count(*) from Etudiants;  
Select count(*) from Matière;  
Select count(*) from Examen;
```

11-

```
USE Evaluation  
GO  
UPDATE Examen SET Code= Code+150;  
DELETE FROM Matière Where Code='M2.1';
```

12-

```
USE Evaluation;  
GO  
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(101,102,103)  
ORDER BY Code_Etud, Note desc
```

13-

```
USE Evaluation;  
GO  
SELECT Etudiant.Code,count(Examen.Code) as 'Nbr examens', min(Note) as 'Note Min', max(Note) as 'Note  
Max'  
FROM Etudiant, Examen  
Where Examen.Code_Etud = Etudiant.Code  
GROUP BY Etudiant.Code
```

14-

```
USE Evaluation;  
GO  
UPDATE Examen  
SET Note = 14  
WHERE Code_Etud = 102 and Code_Mat = 'M2.1'
```

15-

```
USE Evaluation;  
GO  
DELETE FROM Examen  
WHERE Note between 0 and 8
```

16-

```
USE Evaluation;  
GO  
SELECT Code_Etud, (sum(Note*Coef)/Sum(Coef))
```

```
FROM Examen,Matière
WHERE Examen.Code_Mat = Matière.Code
GROUP BY Code_Etud
```

17-

```
USE Evaluation;
GO
SELECT min(Note), max(Note) FROM Examen
```

18-

```
Use Evaluation;
GO
SELECT Code_Etud,Note
FROM Examen
WHERE note=(Select min(note) FROM Examen) OR note=(Select max(note) FROM Examen)
```

19-

```
USE Evaluation;
GO
SELECT Code_Etud,Note, Code_Mat
FROM Examen
WHERE note=(Select min(note) FROM Examen) OR note=(Select max(note) FROM Examen)
```

20-

```
USE Evaluation;
GO
DELETE FROM Examen
WHERE note=(Select min(note) FROM Examen) OR note=(Select max(note) FROM Examen)
```