

# Create a School Database

## DESCRIPTION

Using SQL Server MMC, create tables and indexes for storing students, subjects and classes data.

### Background of the problem statement:

Rainbow School is creating software for school management. The first stage is to design a database in SQL Server which will manage all the data. This database will then be used in the web-based application for school management.

### You must use the following:

SQL Server 17 Express Edition

### Tables:

The following master tables will be created:

Student – store all student data across multiple classes

Subjects – master list of subjects taught in all classes

Classes – list of classes in the school

### Following requirements should be met:

Some of the source code should be tracked on GitHub repositories. You need to document the tracked files that are ignored during the final push to the GitHub repository.

The submission of your GitHub repository link is mandatory. In order to track your task, you need to share the link of the repository in the document.

The step-by-step process involved in completing this task should be documented.

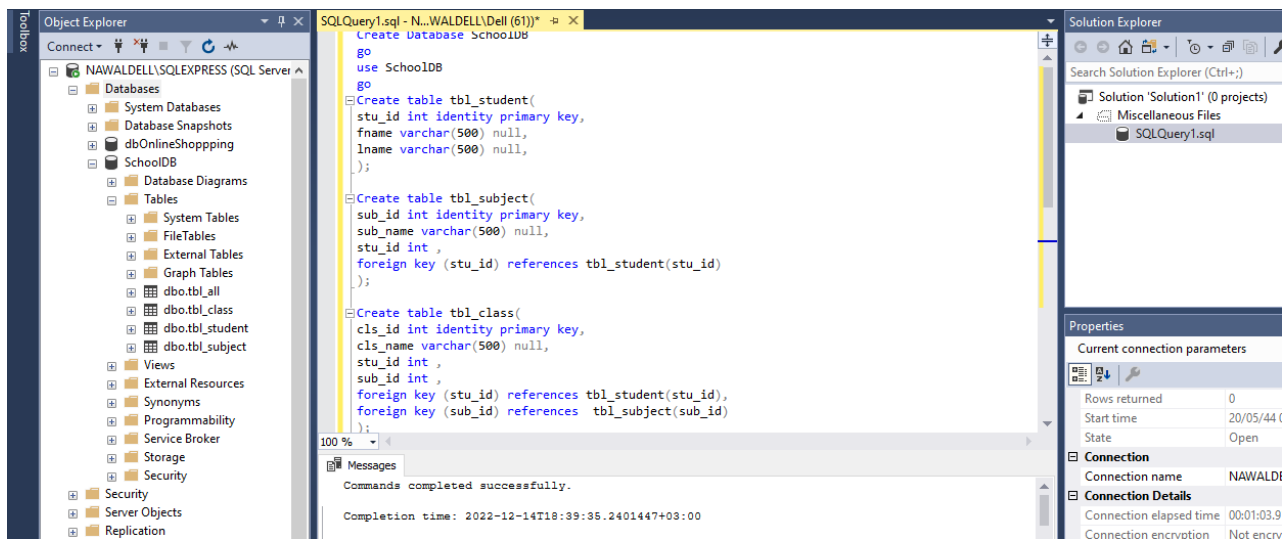
This document contains to :

### **Write up:**

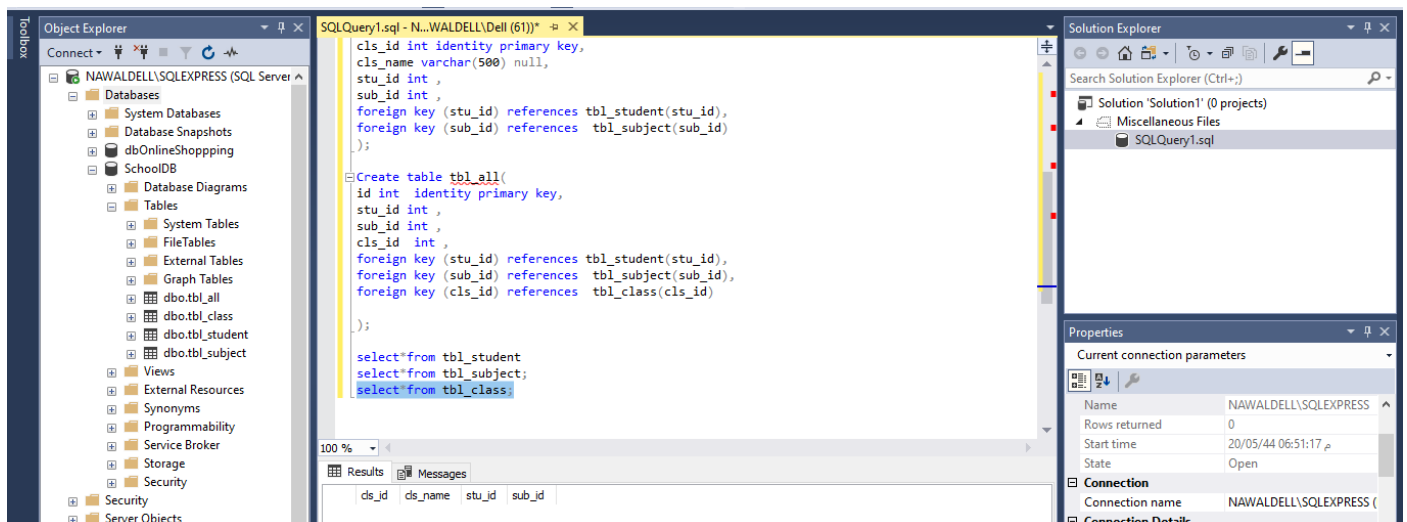
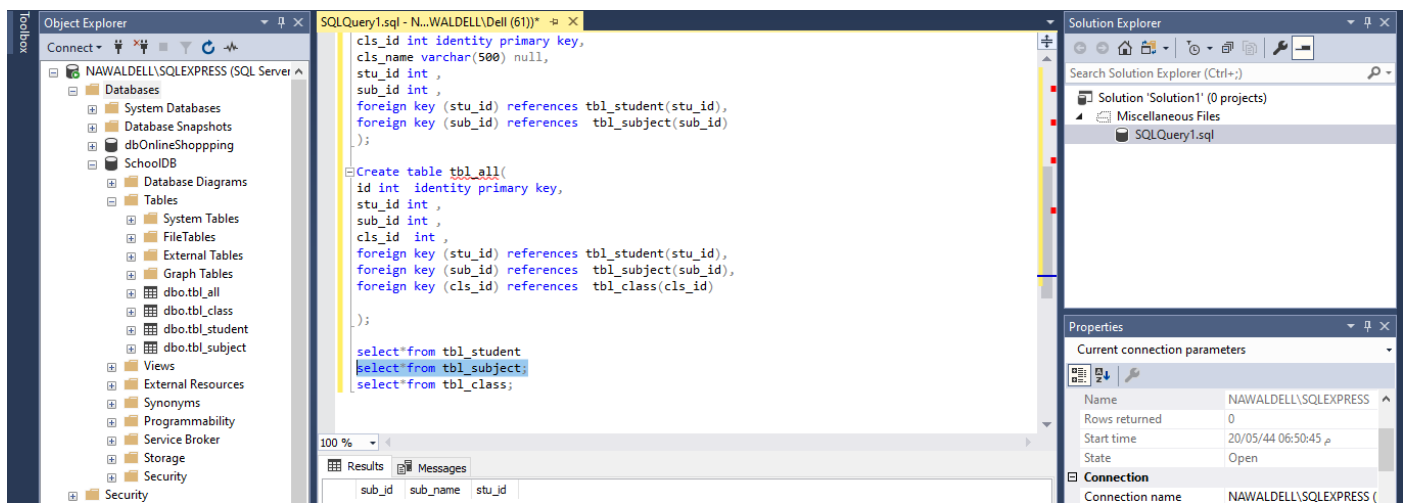
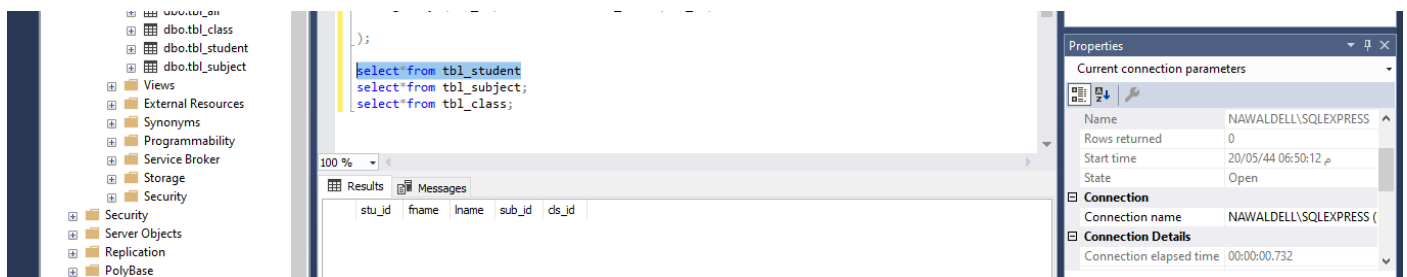
- Create DB
- three tables is created:(Student - Subjects - Classes)
- Display of each table template
- Insertion of data into each table.
- Display tables contents
- Pushing to the GitHub
- Link to the Repository [https://github.com/bitonal/Assignments\\_Cource3.git](https://github.com/bitonal/Assignments_Cource3.git)

### **Screen Shoots:**

1. Create DB called **schoolDB**
2. three tables is created:
  - a. Student **tbl\_student**
  - b. Subjects **tbl\_subject**
  - c. Classes **tbl\_class**



### 3. Display of each table template:



### 4. Insertion of data into each table

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'SchoolDB' database selected. The central pane shows the 'Query Editor' with the following SQL script:

```

cls_id int ,
foreign key (stu_id) references tbl_student(stu_id),
foreign key (sub_id) references tbl_subject(sub_id),
foreign key (cls_id) references tbl_class(cls_id)
);
Create table Admin(
AdminID int identity primary key,
AdminEmail varchar(500),
AdminPass int,
);
select*from tbl_student
select*from tbl_subject;
select*from tbl_class;

insert into tbl_student values('Nawal','Mohammed',2,2);
insert into tbl_subject values(4,'algorithm');

```

The right pane shows the 'Solution Explorer' with the 'System Management School.sql' file. The 'Properties' pane on the far right displays the 'Aggregate Status' table:

Aggregate Status	
Connection failures	
Elapsed time	00:00:00.085
Finish time	20/05/44 11:00:55
Name	NAWALDELL\SQL
Rows returned	0
Start time	20/05/44 11:00:55
State	Open

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'SchoolDB' database selected. The central pane shows the 'Query Editor' with the following SQL script:

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foreign key (stu_id) references tbl_student(stu_id),
foreign key (sub_id) references tbl_subject(sub_id),
foreign key (cls_id) references tbl_class(cls_id)
);
Create table Admin(
AdminID int identity primary key,
AdminEmail varchar(500),
AdminPass int,
);
select*from tbl_student
select*from tbl_subject;
select*from tbl_class;

insert into tbl_class values(3,'B',2);
insert into tbl_student values('Nawal','Mohammed',2,2);
insert into tbl_subject values('algorithm',2);

```

The right pane shows the 'Solution Explorer' with the 'System Management School.sql' file. The 'Properties' pane on the far right displays the 'Aggregate Status' table:

Aggregate Status	
Connection failures	
Elapsed time	00:00:00.040
Finish time	20/05/44 11:04:17
Name	NAWALDELL\SQL
Rows returned	0
Start time	20/05/44 11:04:17
State	Open

The screenshot shows the SQL Server Enterprise Manager interface. The left pane displays the 'Object Explorer' with the 'SchoolDB' database selected. The central pane shows the 'Query Editor' with the following SQL script:

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cls_id int ,
foreign key (stu_id) references tbl_student(stu_id),
foreign key (sub_id) references tbl_subject(sub_id),
foreign key (cls_id) references tbl_class(cls_id)
);
Create table Admin(
AdminID int identity primary key,
AdminEmail varchar(500),
AdminPass int,
);
select*from tbl_student
select*from tbl_subject;
select*from tbl_class;

insert into tbl_class values('B',2,1);
insert into tbl_student values('Nawal','Mohammed',2,2);
insert into tbl_subject values('algorithm',2);

```

The right pane shows the 'Solution Explorer' with the 'System Management School.sql' file. The 'Properties' pane on the far right displays the 'Aggregate Status' table:

Aggregate Status	
Connection failures	
Elapsed time	00:00:00.040
Finish time	20/05/44 11:05:4
Name	NAWALDELL\SC
Rows returned	0
Start time	20/05/44 11:05:4
State	Open

## 5. Display tables contents

SQL Server Enterprise Manager (SSEM) interface showing the execution of a SQL script in the SQL Query Editor. The script defines a database schema and inserts data into tables.

```

-- Schema Definition
CREATE TABLE tbl_student (
    stu_id INT PRIMARY KEY,
    fname VARCHAR(50),
    lname VARCHAR(50),
    sub_id INT,
    cls_id INT
);

CREATE TABLE tbl_subject (
    sub_id INT PRIMARY KEY,
    sub_name VARCHAR(50)
);

CREATE TABLE tbl_class (
    cls_id INT PRIMARY KEY,
    cls_name VARCHAR(50)
);

-- Data Insertion
INSERT INTO tbl_class VALUES ('B', 2, 1);
INSERT INTO tbl_student VALUES ('Nawal', 'Mohammed', 2, 2);
INSERT INTO tbl_subject VALUES ('algorithm', 2);

```

The Results pane shows the output of the script execution:

stu_id	fname	lname	sub_id	cls_id
1	NULL	NULL	NULL	NULL
2	Nawal	Mohammed	2	2

The Properties pane on the right shows the current connection parameters and aggregate status.

SQL Server Enterprise Manager (SSEM) interface showing the execution of a SQL script in the SQL Query Editor. The script defines a database schema and inserts data into tables.

```

-- Schema Definition
CREATE TABLE tbl_student (
    stu_id INT PRIMARY KEY,
    fname VARCHAR(50),
    lname VARCHAR(50),
    sub_id INT,
    cls_id INT
);

CREATE TABLE tbl_subject (
    sub_id INT PRIMARY KEY,
    sub_name VARCHAR(50)
);

CREATE TABLE tbl_class (
    cls_id INT PRIMARY KEY,
    cls_name VARCHAR(50)
);

-- Data Insertion
INSERT INTO tbl_class VALUES ('B', 2, 1);
INSERT INTO tbl_student VALUES ('Nawal', 'Mohammed', 2, 2);
INSERT INTO tbl_subject VALUES ('algorithm', 2);

```

The Results pane shows the output of the script execution:

sub_id	sub_name	stu_id
1	Math	1
2	Computer	1
3	DataBase	1
4	algorithm	2

The Properties pane on the right shows the current connection parameters and aggregate status.

SQL Server Enterprise Manager (SSEM) interface showing the execution of a SQL script in the SQL Query Editor. The script defines a database schema and inserts data into tables.

```

-- Schema Definition
CREATE TABLE tbl_student (
    stu_id INT PRIMARY KEY,
    fname VARCHAR(50),
    lname VARCHAR(50),
    sub_id INT,
    cls_id INT
);

CREATE TABLE tbl_subject (
    sub_id INT PRIMARY KEY,
    sub_name VARCHAR(50)
);

CREATE TABLE tbl_class (
    cls_id INT PRIMARY KEY,
    cls_name VARCHAR(50)
);

-- Data Insertion
INSERT INTO tbl_class VALUES ('B', 2, 1);
INSERT INTO tbl_student VALUES ('Nawal', 'Mohammed', 2, 2);
INSERT INTO tbl_subject VALUES ('algorithm', 2);

```

The Results pane shows the output of the script execution:

cls_id	cls_name	stu_id	sub_id
1	A	1	1
2	B	2	1

The Properties pane on the right shows the current connection parameters and aggregate status.

## 6. Pushing into the GitHub:

ق الاختصار إلى إلى تسمية جديد جديد فتح المحفوظات عكس التحديث تحديث

Ass1 < AssCourse3 < (E) القرص المحلي الشخصي

الاسم التاريخ التعديل النوع

git ٤٤/٠٥/١٩ م ٠٤:٣٩ مجلد ملقا

DBShooletMS ٤٤/٠٥/١٩ م ٠٤:٣٤ SQL Ser...

MINGW64:/e/AssCourse3/Ass1

```

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1
$ git init
Initialized empty Git repository in E:/AssCourse3/Ass1/.git/

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (master)
$ git branch -M main

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git add .

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git ls
git: 'ls' is not a git command. See 'git --help'.

The most similar command is
  lfs

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ ls
DBShooletMS.sql

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git commit -m "Add First Ass of C3"

```

Ass1 < AssCourse3 < (E) القرص المحلي الشخصي

الاسم التاريخ التعديل النوع

git ٤٤/٠٥/١٩ م ٠٤:٣٩ مجلد ملقا

DBShooletMS ٤٤/٠٥/١٩ م ٠٤:٣٤ SQL Ser...

MINGW64:/e/AssCourse3/Ass1

```

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git commit -m "Add First Ass of C3"
[main (root-commit) 2b9f2a0] Add First Ass of C3
1 file changed, 40 insertions(+)
create mode 100644 DBShooletMS.sql

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git status
On branch main
nothing to commit, working tree clean

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git log
commit 2b9f2a0c620a5c09e15622930260cc408582edc3 (HEAD -> main)
Author: Nawal <maltego432@gmail.com>
Date: Tue Dec 13 16:37:52 2022 +0300

    Add First Ass of C3

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git remote add origin https://github.com/bitonal/Assignments_Cource3.git

```

Ass1 < AssCourse3 < (E) القرص المحلي الشخصي

الاسم التاريخ التعديل النوع

git ٤٤/٠٥/١٩ م ٠٤:٣٩ مجلد ملقا

DBShooletMS ٤٤/٠٥/١٩ م ٠٤:٣٤ SQL Ser...

MINGW64:/e/AssCourse3/Ass1

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On branch main
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$ git log
commit 2b9f2a0c620a5c09e15622930260cc408582edc3 (HEAD -> main)
Author: Nawal <maltego432@gmail.com>
Date: Tue Dec 13 16:37:52 2022 +0300

    Add First Ass of C3

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git remote add origin https://github.com/bitonal/Assignments_Cource3.git

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git push -u origin main
fatal: 'origin' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.

De11@NawalDELL MINGW64 /e/AssCourse3/Ass1 (main)
$ git push -u origin main

```

github.com/bitonal/Assignments\_Cource3

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bitonal Add Ass1 13d9461 2 minutes ago 2 commits

Ass1 Add Ass1 2 minutes ago

README.md Initial commit 10 minutes ago

README.md

## Assignments\_Cource3

About

No description, website, or topics provided.

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0 forks

Releases

No releases published

Create a new release

Link to this repository:

[https://github.com/bitonal/Assignments\\_Cource3.git](https://github.com/bitonal/Assignments_Cource3.git)