

Student’s Oasis

Tutoring Center

Center Center

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**Summary**

Students’ Oasis Tutoring Center is a midsized tutoring company that provides services to students from grade kindergarten through grade twelve. Based in Cartersville, Georgia, the center has been in operation since July 2013. Since its startup, the tutors at the center are expected to keep track of their scheduled sessions with students and bookkeeping by way of calendar and spreadsheets. However, this method has been proven inefficient for tutors as it has led scheduling overlaps and reduced, or missed, payments from the parents of the students. The director of the center has decided a database will better suit the administrative needs of the company by preventing major conflicts, gaining public traction, and increasing the center’s profit. In the beginning stages of this project, we will describe the rules of the business by identifying the major entities that make the business, their attributes, and the relationships they share with each other. Next, we will design tentative conceptual and logical database models from our business rules which we will then present to the stakeholders. Afterwards, we will make changes to those models, if necessary, before moving on to the final stages of the project.

**Stakeholders**

The stakeholders for this project include the director and tutors of the Students’ Oasis Tutoring Center, students and their parents or guardians, and the center’s Partners in Education – Cobb Elementary School, Altoona Middle School, and Barrett Highschool. The implementation of this database will increase the center’s profitability and improve tutors’ productivity and student attendance. Tutors can schedule, organize, and view sessions in advance, update their profile, record payments per session, and manage their students. Like tutors, students can also view upcoming sessions with their tutor, make changes to their profile, and reschedule sessions if needed. Parents and guardians can book sessions for their students and view their student’s activity. The director will be able to use the database to remain up to date with bookkeeping, maintain the payroll of the tutors, and have an overview of tutor and student activity. The Partners in Education can track the progress of students that attend their schools.

**Business Rules**

* A parent has one or many students.
* A parent or student purchases tutoring credits.
* A student studies many subjects.
* Student status updates the student.
* A tutor instructs students.
* A tutor works in one tutoring department.
* A tutor hosts session.
* A student attends session with their tutor.
* Session Status updates the session.

**Glossary**

**Student** – A student is a person who studies at a school and uses the tutoring services at SOTC for extra academic assistance.

**Parent** – The legal guardian of a student/ students and schedules a service with SOTC.

**Tutor** – a person employed by Students’ Oasis Tutoring Center who instructs students through tutoring sessions.

**Student Status** – A student’s status can be ACTIVE, INACTIVE, TEMPORARY PAUSE, DROPPED, or COMPLETE.

**ENROLLED Student Status** – The student regularly attends sessions and maintains contact with their tutor.

**INACTIVE Student Status** – The student consecutively misses sessions and does not keep contact regular with their tutor but is still on the tutor’s schedule until further notice.

**TEMPORARY ABSENCE Student Status** – The student paused attendance to sessions to the knowledge of their tutor.

**COMPLETED Student Status** – The student has attended scheduled sessions and used up all purchased tutoring credits

**Subject** – Includes disciplines in Mathematics, Science, English, Music, Social Studies and World Languages.

**Tutoring Department –** The center has a tutoring department for each subject area where the tutors in that department specializes in that subject.

**Session** – A meeting between tutors and students that contains the meeting days and times, tutor’s name, number of students attending, fee, location, the subject, and the session type.

**Session Type** – Sessions can be taught In-Group Online, Individual Online, In-Group Face-to-Face, or Individual Face-To-Face.

**In-Group Online Session** – Sessions are held in a virtual chatroom with one tutor and two or more students.

**Individual Online Session** – Sessions are held in a virtual chatroom with one tutor and one student.

**In-Group Face-to-Face Session** – Sessions are held in person between a tutor and two or more students at a decided location.

**Individual Face-to-Face Session** – Sessions are held in person between a tutor and a student at a decided location.

**Data Questions**

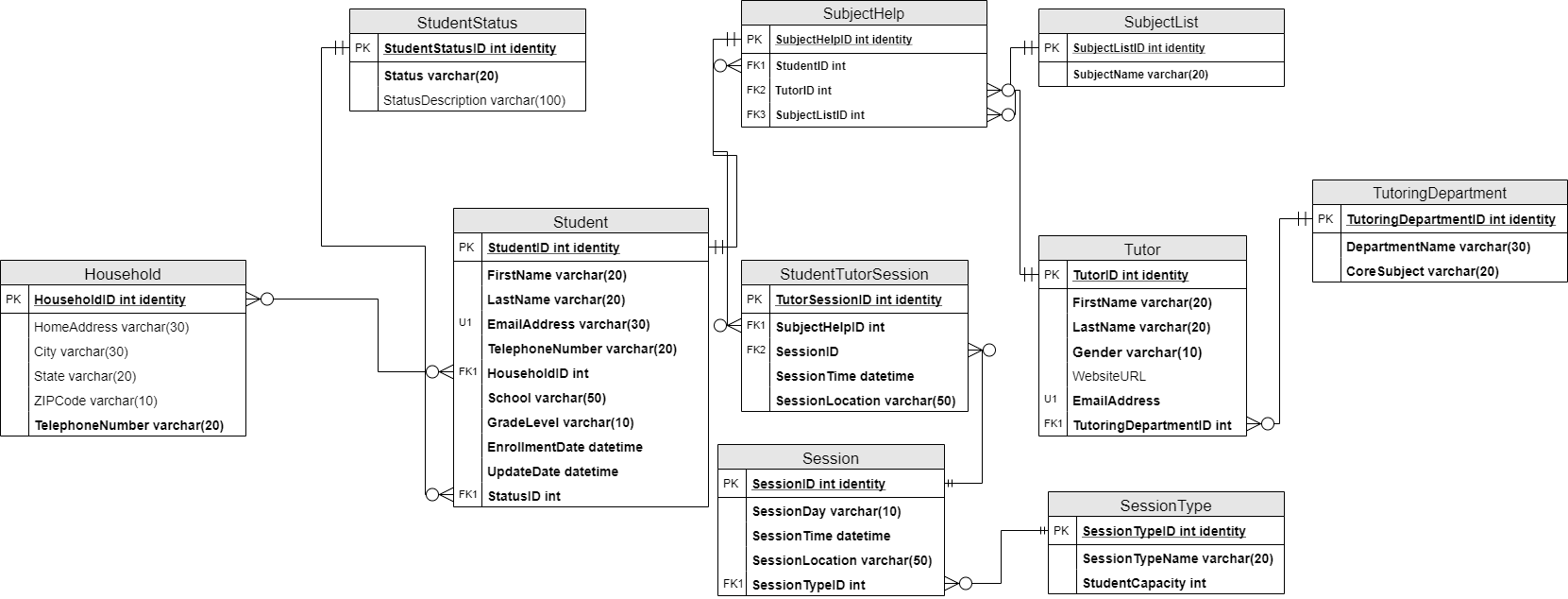
1. Which subject receives the most tutoring request among students?
2. Is there an uneven allocation of tutors in different subject areas?
3. Which tutor has the most students on their schedule?
4. What is the average length of time a student stays in the tutoring program?
5. Which tutoring medium is requested the most amongst students?

**Conceptual Model**

**A close up of text on a white background

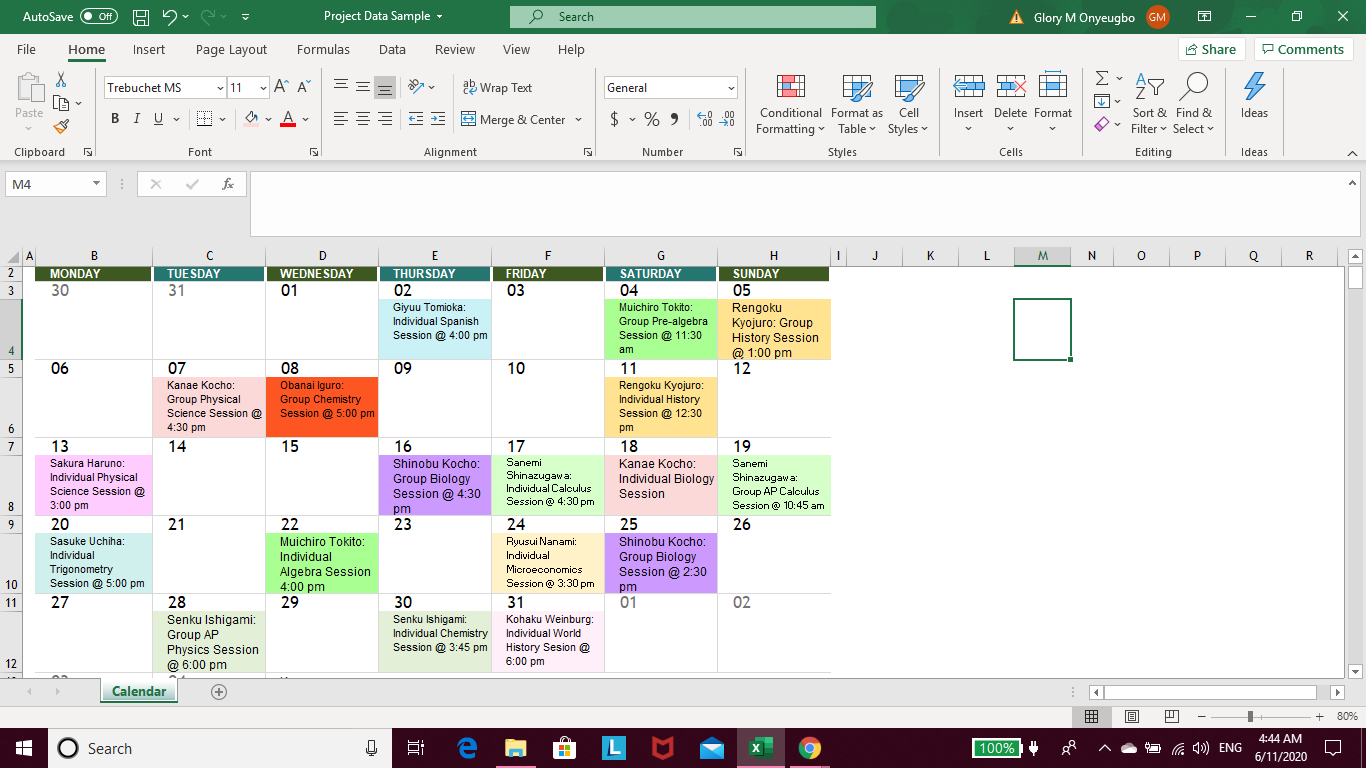
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**Logical Model**

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**Data Sample**

Students’ Tutoring Oasis use spreadsheets or calendars to maintain the tutoring schedules of their tutors. Below is a calendar that documents the tutoring sessions scheduled in the month of January 2020. On the calendar, there lists the tutoring session for that day, the name of the tutor that hosts the session, and the time the session is expected to begin.



**Physical Database Design**

-- drop all procedures

IF OBJECT\_ID ('dbo.RemoveStudent', 'P') IS NOT NULL

DROP PROCEDURE dbo.RemoveStudent

GO

IF OBJECT\_ID ('dbo.CompleteSession', 'P') IS NOT NULL

DROP PROCEDURE dbo.CompleteSession

GO

IF OBJECT\_ID ('dbo.UpdateStudentStatus', 'P') IS NOT NULL

DROP PROCEDURE dbo.UpdateStudentStatus

GO

-- drop all views

IF OBJECT\_ID ('dbo.TutorAndStudentSessions', 'V') IS NOT NULL

DROP VIEW dbo.TutorAndStudentSessions

GO

IF OBJECT\_ID ('dbo.TutoringDepartmentTutors', 'V') IS NOT NULL

DROP VIEW dbo.TutoringDepartmentTutors

GO

IF OBJECT\_ID ('dbo.TutorViewStudents', 'V') IS NOT NULL

DROP VIEW dbo.TutorViewStudents

GO

-- drop all tables

IF OBJECT\_ID ('dbo.StudentTutorSession', 'U') IS NOT NULL

DROP TABLE dbo.StudentTutorSession

GO

IF OBJECT\_ID ('dbo.TutorSession', 'U') IS NOT NULL

DROP TABLE dbo.TutorSession

GO

IF OBJECT\_ID ('dbo.StudentSubjectHelp', 'U') IS NOT NULL

DROP TABLE dbo.StudentSubjectHelp

GO

IF OBJECT\_ID ('dbo.SessionStatus', 'U') IS NOT NULL

DROP TABLE dbo.SessionStatus

GO

IF OBJECT\_ID ('dbo.SessionType', 'U') IS NOT NULL

DROP TABLE dbo.SessionType

GO

IF OBJECT\_ID ('dbo.Tutor', 'U') IS NOT NULL

DROP TABLE dbo.Tutor

GO

IF OBJECT\_ID ('dbo.TutoringDepartment', 'U') IS NOT NULL

DROP TABLE dbo.TutoringDepartment

GO

IF OBJECT\_ID ('dbo.Student', 'U') IS NOT NULL

DROP TABLE dbo.Student

GO

IF OBJECT\_ID ('dbo.Household', 'U') IS NOT NULL

DROP TABLE dbo.Household

GO

IF OBJECT\_ID ('dbo.StudentStatus', 'U') IS NOT NULL

DROP TABLE dbo.StudentStatus

GO

IF OBJECT\_ID ('dbo.SubjectList', 'U') IS NOT NULL

DROP TABLE dbo.SubjectList

GO

/\*

Creating the database tables.

\*/

-- Begin creating the SubjectList table.

CREATE TABLE SubjectList (

-- Columns for the SubjectList table

SubjectListID int identity not null,

SubjectName varchar(40) not null

-- Constraints on the SubjectList table

CONSTRAINT PK\_SubjectList PRIMARY KEY (SubjectListID)

)

-- Completed the SubjectList table

-- Begin creating the StudentStatus

CREATE TABLE StudentStatus (

-- Columns for the StudentStatus table

StudentStatusID int identity not null,

StatusName varchar(20) not null,

StatusDescription varchar(100) not null

-- Constraints on the StudentStatus table

CONSTRAINT PK\_StudentStatus PRIMARY KEY (StudentStatusID)

)

-- Completed the StudentStatus table

-- Begin creating the Household table.

CREATE TABLE Household (

-- Columns for the Household table

HouseholdID int identity not null,

HomeAddress varchar(50) not null,

City varchar(20) not null,

HouseholdState char(5) not null,

ZipCode varchar(10) not null,

TelephoneNumber varchar(20) not null

-- Constraints on the Household table

CONSTRAINT PK\_Household PRIMARY KEY (HouseholdID)

)

-- Completed the Household table.

-- Begin creating the Student table

CREATE TABLE Student (

-- Columns for the Student table

StudentID int identity not null,

StudentLastName varchar(20) not null,

StudentFirstName varchar(20) not null,

StudentEmailAddress varchar(30) not null,

HouseholdID int not null,

SchoolName varchar(40),

GradeLevel varchar(5),

EnrollmentDate datetime not null,

UpdateDate datetime not null,

StudentStatusID int not null

-- Constraints on the Student table

CONSTRAINT PK\_Student PRIMARY KEY (StudentID),

CONSTRAINT U1\_Student UNIQUE (StudentEmailAddress),

CONSTRAINT FK1\_Student FOREIGN KEY (HouseholdID) REFERENCES Household(HouseholdID),

CONSTRAINT FK2\_Student FOREIGN KEY (StudentStatusID) REFERENCES StudentStatus(StudentStatusID)

)

-- Completed the Student table

-- Begin creating the TutoringDepartment table

CREATE TABLE TutoringDepartment (

-- Columns for the tutoringDepartment table

TutoringDepartmentID int identity not null,

DepartmentName varchar(30) not null,

CoreSubject varchar(20) not null

-- Constraints on the TutoringDepartment table

CONSTRAINT PK\_TutoringDepartment PRIMARY KEY (TutoringDepartmentID)

)

-- Completed the TutoringDepartment table

-- Begin creating the Tutor table

CREATE TABLE Tutor (

-- Columns for the Tutor table

TutorID int identity not null,

TutorLastName varchar(20) not null,

TutorFirstName varchar(20) not null,

WebsiteURL varchar(100),

TutorEmailAddress varchar(30) not null,

TelephoneNumber varchar(20) not null,

TutoringDepartmentID int not null

-- Constraints on the Tutor table

CONSTRAINT PK\_Tutor PRIMARY KEY (TutorID),

CONSTRAINT U1\_Tutor UNIQUE (TutorEmailAddress),

CONSTRAINT U2\_Tutor UNIQUE (TelephoneNumber),

CONSTRAINT FK1\_Tutor FOREIGN KEY (TutoringDepartmentID) REFERENCES TutoringDepartment(TutoringDepartmentID)

)

-- Completed the Tutor table

-- Begin creating the SessionType table

CREATE TABLE SessionType (

-- Columns for the SessionType table

SessionTypeID int identity not null,

SessionMedium varchar(30) not null,

MaxStudentCapacity int

-- Constraints on the SessionType table

CONSTRAINT PK\_SessionType PRIMARY KEY (SessionTypeID)

)

-- Completed the SessionType table

-- Begin creating the SessionStatus table

CREATE TABLE SessionStatus (

-- Columns for the SessionStatus table

SessionStatusID int identity not null,

SessionStatusText varchar(20) not null

-- Constraints for the SessionStatus table

CONSTRAINT PK\_SessionStatus PRIMARY KEY (SessionStatusID)

)

-- Completed the SessionStatus table

-- Begin creating the StudentSubjectHelp table

CREATE TABLE StudentSubjectHelp (

-- Columns for the StudentSubjectHelp table

StudentSubjectHelpID int identity not null,

StudentID int not null,

TutorID int not null,

SubjectListID int not null

-- Constraints on the StudentSubjectHelp table

CONSTRAINT PK\_StudentSubjectHelp PRIMARY KEY (StudentSubjectHelpID),

CONSTRAINT FK1\_StudentSubjectHelp FOREIGN KEY (StudentID) REFERENCES Student(StudentID),

CONSTRAINT FK2\_StudentSubjectHelp FOREIGN KEY (TutorID) REFERENCES Tutor(TutorID),

CONSTRAINT FK3\_StudentSubjectHelp FOREIGN KEY (SubjectListID) REFERENCES SubjectList(SubjectListID)

)

-- Completed the StudentSubjectHelp table

-- Begin creating the TutorSession

CREATE TABLE TutorSession (

-- Columns for the TutorSession

TutorSessionID int identity not null,

SessionName varchar(50) not null,

SessionLocation varchar(50),

SessionDay varchar(10) not null,

SessionStartTime datetime not null,

SessionTypeID int not null,

TutorID int not null,

SessionStatusID int not null

-- Constraints on the TutorSession

CONSTRAINT PK\_TutorSession PRIMARY KEY (TutorSessionID),

CONSTRAINT FK1\_TutorSession FOREIGN KEY (SessionTypeID) REFERENCES SessionType(SessionTypeID),

CONSTRAINT FK2\_TutorSession FOREIGN KEY (TutorID) REFERENCES Tutor(TutorID),

CONSTRAINT FK3\_TutorSesion FOREIGN KEY (SessionStatusID) REFERENCES SessionStatus(SessionStatusID)

)

-- Completed the StudentTutorSession

-- Begin creating the StudentTutorSession table

CREATE TABLE StudentTutorSession (

-- Columns for the StudentTutorSession table

StudentTutorSessionID int identity not null,

TutorSessionID int not null,

StudentID int not null

-- Constraints on the StudentTutorSession table

CONSTRAINT PK\_StudentTutorSession PRIMARY KEY (StudentTutorSessionID),

CONSTRAINT FK1\_StudentTutorSession FOREIGN KEY (TutorSessionID) REFERENCES TutorSession(TutorSessionID),

CONSTRAINT FK2\_StudentTutorSession FOREIGN KEY (StudentID) REFERENCES Student(StudentID)

)

-- Completed StudentTutorSession table

/\*

Inserting information into all tables.

\*/

-- Insert data into student status table.

INSERT INTO StudentStatus(StatusName, StatusDescription)

VALUES ('Enrolled', 'Student is currently enrolled in the tutoring program'),

('Inactive', 'Student has not attended last few sessions and has not contacted respective tutor'),

('Temporary Absence', 'Student is currently unable to attend sessions with tutor but still in contact'),

('Completed', 'Student has attended all sessions with tutor and completed the program')

-- Check for any mistakes in the student status table

SELECT \* FROM StudentStatus

-- Insert statuses into SessionStatus table

INSERT INTO SessionStatus(SessionStatusText)

VALUES ('Upcoming'),

('Complete'),

('Rescheduled'),

('Never Attended'),

('Cancelled')

SELECT \* FROM SessionStatus

-- Insert session types into SessionType table

INSERT INTO SessionType(SessionMedium, MaxStudentCapacity)

VALUES ('GROUP ONLINE', '10'),

('INDIVIDUAL ONLINE', '1'),

('GROUP FACE-TO-FACE', '10'),

('INDIVIDUAL FACE-TO-FACE', '1')

SELECT \* FROM SessionType

-- Insert subjects into SubjectList table

INSERT INTO SubjectList(SubjectName)

VALUES ('Numbers and Operations'),

('Pre-algebra'),

('Algebra'),

('Algebra 2'),

('Linear Algebra'),

('Geometry'),

('Precalculus'),

('Calculus'),

('Statistics and Probability'),

('Trigonometry'),

('Differential Equations'),

('Biology'),

('Physical Science'),

('Chemistry'),

('Organic Chemistry'),

('Physics'),

('Health'),

('Astronomy'),

('US History'),

('World History'),

('Art History'),

('Comparative Religions'),

('US Government'),

('Macroeconomics'),

('Microeconomics'),

('Geography'),

('Phonics'),

('Reading Comprehension'),

('English'),

('American Literature'),

('British Literature'),

('African Literature'),

('Spanish'),

('French'),

('AP Calculus'),

('AP US History'),

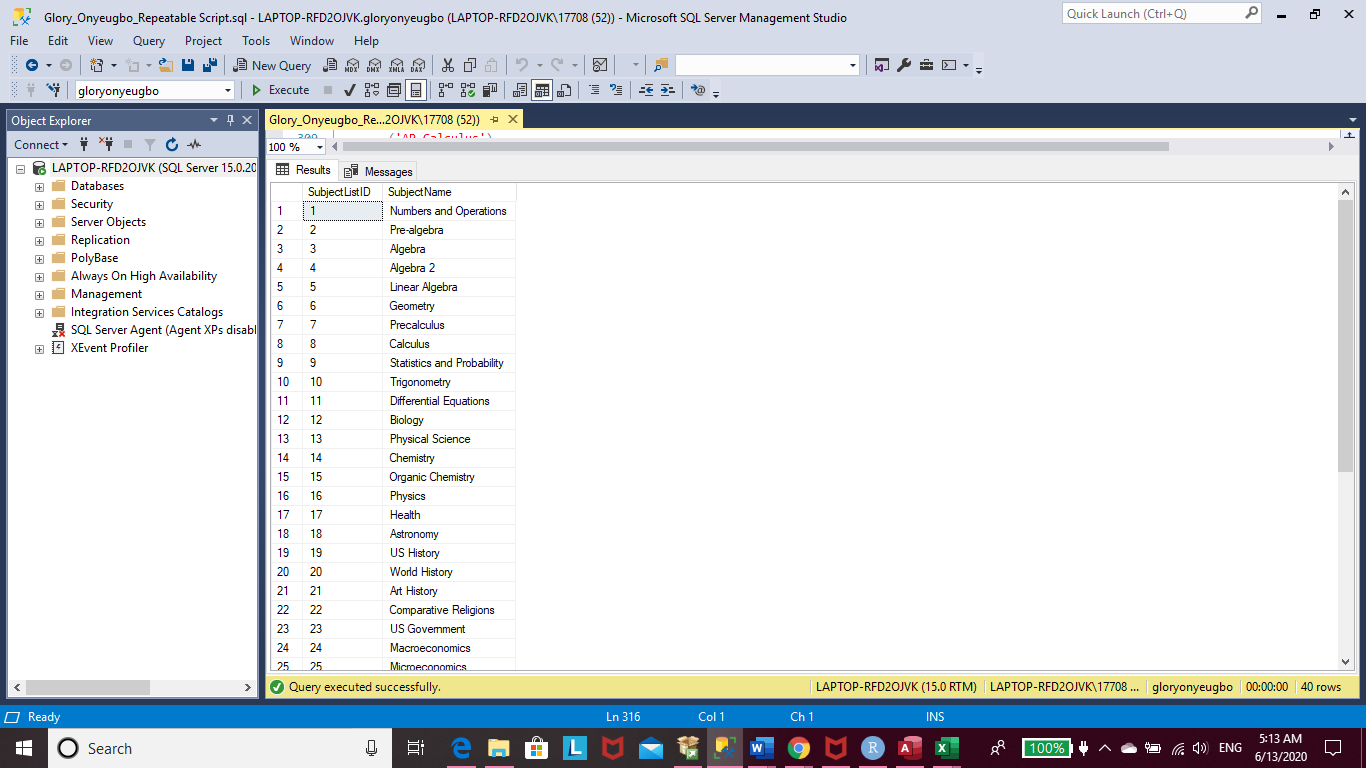
('AP Spanish'),

('AP Economics'),

('AP Physics'),

('AP Chemistry')

SELECT \* FROM SubjectList



-- Insert department names into TutoringDepartment table

INSERT INTO TutoringDepartment(DepartmentName, CoreSubject)

VALUES ('Math Department', 'Mathematics'),

('Science Department', 'Science'),

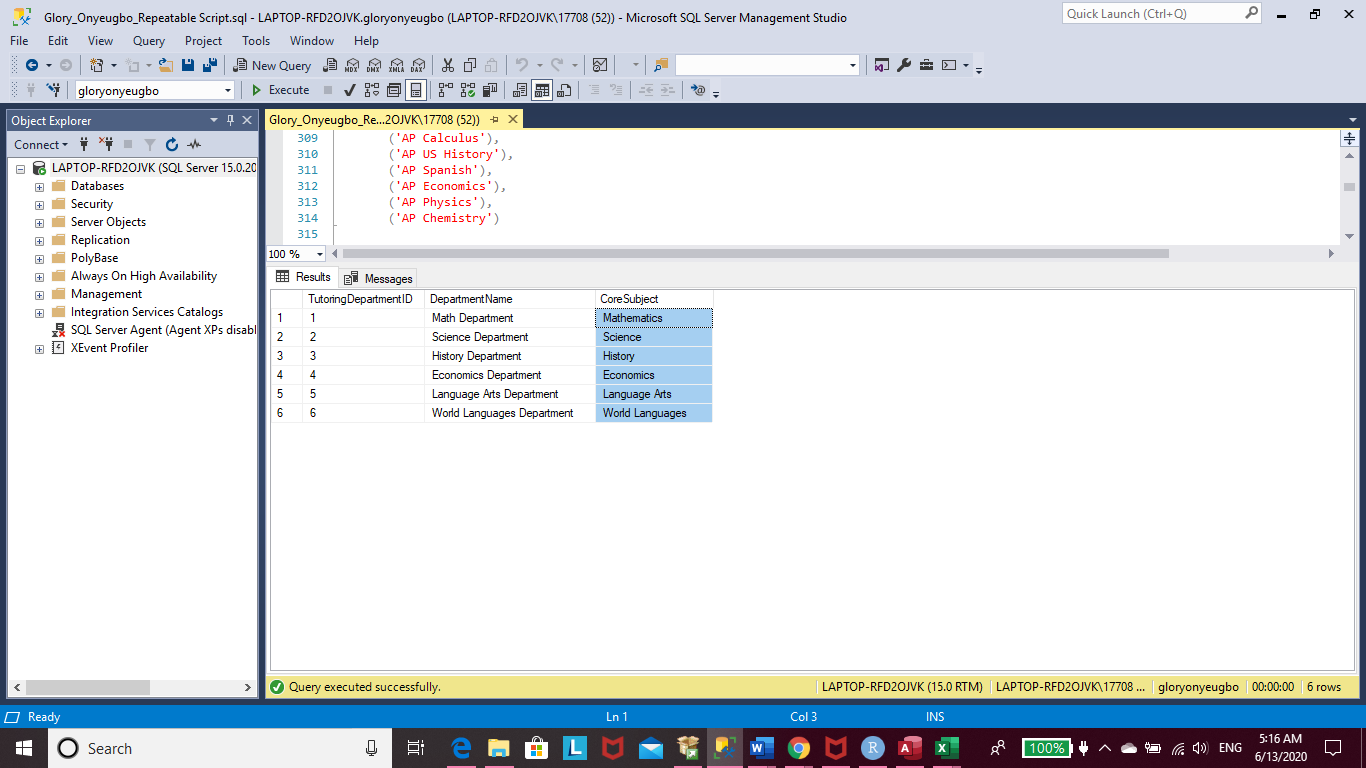
('History Department', 'History'),

('Economics Department', 'Economics'),

('Language Arts Department', 'Language Arts'),

('World Languages Department', 'World Languages')

SELECT \* FROM TutoringDepartment



-- Insert home addresses into Household table

INSERT INTO Household (HomeAddress, City, HouseholdState, ZipCode, TelephoneNumber)

VALUES ('422 En Vogue St', 'Marietta', 'GA', '30157', '7702223456'),

('304 Round the Way Dr', 'Dallas', 'GA', '30162', '6784849092'),

('876 Quality Street', 'Cartersville', 'GA', '30828', '6785321678'),

('202 Alantis Blvd', 'Atlanta', 'GA', '30133', '7078235641'),

('522 Peachtree St', 'Atlanta', 'GA', '30166', '9732822604'),

('277 Good Vibes Dr', 'Rome', 'GA', '30232', '6784932285'),

('345 Lettuce St', 'Marietta','GA', '30956', '6785443022'),

('311 Silver Bling St', 'Marietta', 'GA', '30154', '6787823091'),

('285 Thomas Dr', 'Cumberland', 'GA', '30141', '7703435213'),

('340 Frozen St', 'Cartersville', 'GA', '30898', '6789991111'),

('689 Bloomingdale Blvd', 'Atlanta', 'GA', '30134', '7708889292'),

('722 Glenndale Dr', 'Rome', 'GA', '302310', '6783030289'),

('694 Alejandro Blvd', 'Dallas', 'GA', '30112', '7078986765'),

('888 Hashibira Dr', 'Cartersville', 'GA', '30939', '9734445655'),

('576 Blooregard St', 'Cumberland', 'GA', '30846', '6782135467')

SELECT \* FROM Household

-- Insert Students into the Student table

INSERT INTO Student(StudentLastName, StudentFirstName, StudentEmailAddress, SchoolName,

GradeLevel, EnrollmentDate, UpdateDate, HouseholdID, StudentStatusID)

VALUES ('Kamado', 'Tanjiro', 'tankam@student.edu', 'Barrett Highschool', '9', '10-15-2019', '3-20-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '9734445655')

, (SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Kamado', 'Nezuko', 'nezkam@student.edu', 'Altoona Middle School', '8', '1-15-2020', '3-20-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '9734445655')

, (SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Kamado', 'Takeo', 'takkam@student.edu', 'Altoona Middle School', '6', '1-15-2020', '3-20-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '9734445655')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Abuja', 'Nigeria', 'nigabu@student.edu', 'Abuja Highschool', '11', '11-1-2019', '12-20-2019'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '7078986765')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Hyuga', 'Hinata', 'hinhyu@student.edu', 'Konoha Highschool', '12', '5-10-2019', '12-1-2019'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6782135467')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Completed')),

('Abuja', 'Ghana', 'ghaabu@student.edu', 'Altoona Highschool', '8', '5-10-2019', '10-1-2019'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '7078986765')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Shinazugawa', 'Genya', 'genshi@student.edu', 'Barrett Highschool', '10', '9-14-2019', '1-15-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6785321678')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Takada', 'Naho', 'nahtak@student.edu', 'Cobb Elementary School', '4', '1-20-2020', '4-1-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6787823091')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Terauchi', 'Kiyo', 'kiyter@student.edu', 'Cobb Elementary School', '4', '7-10-2019', '1-5-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6787823091')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Completed')),

('Lagos', 'Gambia', 'gamlag@student.edu', 'Abuja Highschool', '10', '1-20-2019', '3-1-2019'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6784849092')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Inactive')),

('Agatsuma', 'Zenitsu', 'zenaga@student.edu', 'Barrett Highschool', '9', '1-10-2020', '2-1-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '7078235641')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Hashibira', 'Inosuke', 'inohas@student.edu', 'Park Highschool', '9', '12-10-2019', '4-1-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '9732822604')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Nakahara', 'Sumi', 'sumnak@student.edu', 'Dallas Elementary School', '5', '11-1-2019', '2-1-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6785443022')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Jacobs', 'Lonni', 'lonjac@student.edu', 'Abuja Highschool', '12', '7-1-2019', '12-20-2019'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '7703435213')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Kanzaki', 'Aoi', 'aoikan@student.edu', 'Carter Highschool', '11', '11-10-2019', '5-10-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6783030289')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Completed')),

('Water', 'Katara', 'katwat@student.edu', 'Eskimo Highschool', '9', '12-20-2019', '4-1-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6789991111')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Water', 'Sokka', 'sokwat@student.edu', 'Inuit Middle School', '8', '9-20-2019', '4-1-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6789991111')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Completed')),

('Fire', 'Alita', 'alifir@student.edu', 'Cobb Elementary School', '3', '8-10-2019', '9-1-2019'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6787823091')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Temporary Absence')),

('Richmond', 'Celeste', 'celric@student.edu', 'Barrett Highschool', '10', '11-15-2019', '3-30-2020'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '6784932285')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled')),

('Butter', 'Shea', 'shebut@student.edu', 'North Atlanta Highschool', '10', '3-30-2019', '9-5-2019'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '7702223456')

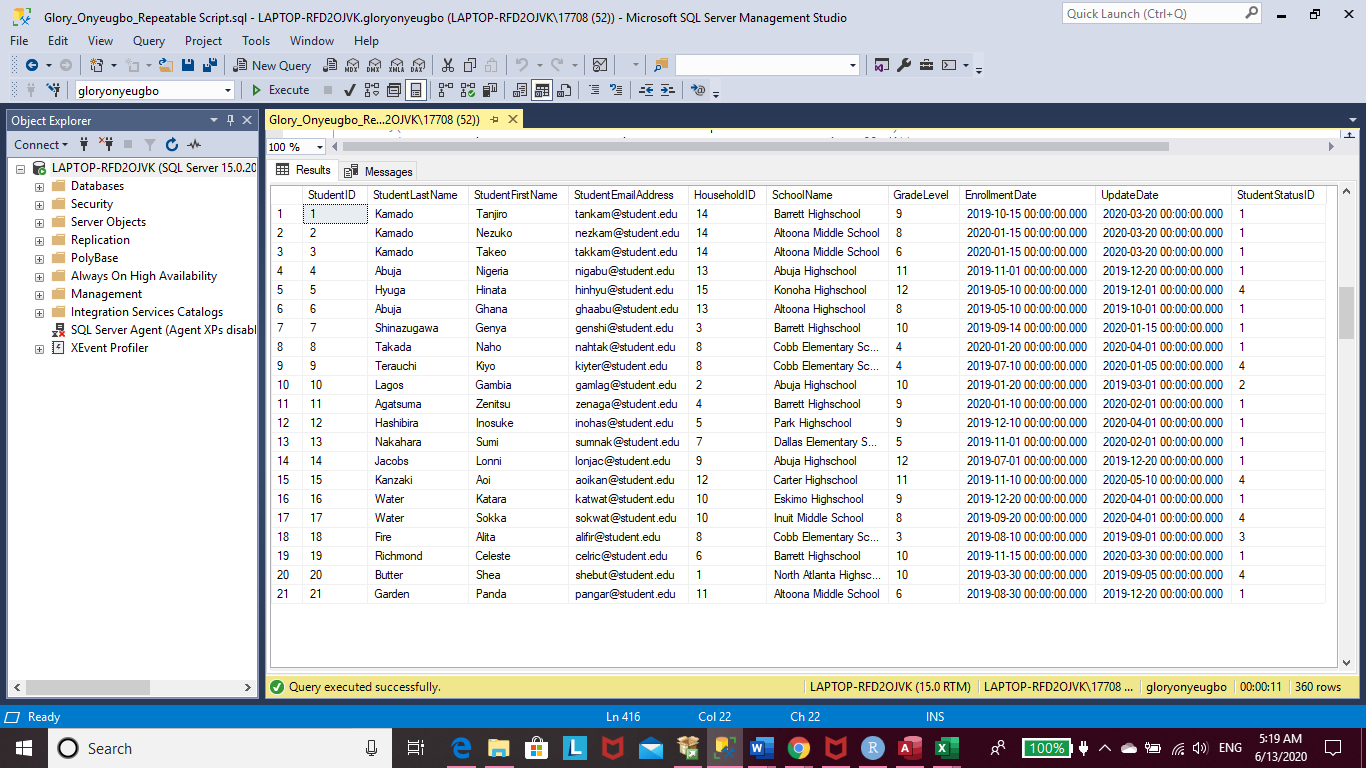
,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Completed')),

('Garden', 'Panda', 'pangar@student.edu', 'Altoona Middle School', '6', '8-30-2019', '12-20-2019'

,(SELECT HouseholdID FROM Household WHERE TelephoneNumber = '7708889292')

,(SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Enrolled'))

SELECT \* FROM Student



-- Insert tutor names to the tutor table

INSERT INTO Tutor(TutorLastName, TutorFirstName, TutorEmailAddress, TelephoneNumber, WebsiteURL, TutoringDepartmentID)

VALUES ('Kocho', 'Kanae', 'kankoc@tutor.edu', '6784561231', 'https://KanaeKocho.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Science Department')),

('Shinazugawa', 'Sanemi', 'sanshi@tutor.edu', '6789517536', 'https://SanemiShinazugawa.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Math Department')),

('Iguro', 'Obanai', 'obaigu@tutor.edu', '7707894891', 'https://ObanaiIguro.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Science Department')),

('Tomioka', 'Giyuu', 'giytom@tutor.edu', '7701597536', 'NULL'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'World Languages Department')),

('Kanroji', 'Mitsuri', 'mitkan@tutor.edu', '6784512357', 'https://MitsuriKanroji.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Language Arts Department')),

('Rengoku', 'Kyojuro', 'kyoren@tutor.edu', '6782315648', 'https://KyojuroRengoku.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'History Department')),

('Uzui', 'Tengen', 'tenuzu@tutor.edu', '4048559555', 'https://TengenUzui.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Language Arts Department')),

('Himejima', 'Gyomei', 'gyohim@tutor.edu', '9735658989', 'NULL'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'History Department')),

('Tokito', 'Muichiro', 'muitok@tutor.edu', '6784040505', 'https://MuichiroTokito.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Math Department')),

('Kocho', 'Shinobu', 'shikoc@tutor.edu', '678282228', 'https://ShinobuKocho.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Science Department')),

('Uchiha', 'Sasuke', 'sasuch@tutor.edu', '7702953624', 'NULL'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Math Department')),

('Haruno', 'Sakura', 'sakhar@tutor.edu', '7705959898', 'https:/SakuraHaruno.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Science Department')),

('Nara', 'Shikamaru', 'shinar@tutor.edu', '6783684152', 'https://ShikamaruNara.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Math Department')),

('Ishigami', 'Senku', 'senish@tutor.edu', '6783026059', 'https://SenkuIshigami.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Science Department')),

('Nanami', 'Ryusui', 'ryunan@tutor.edu', '7708523698', 'https://RyusuiNanami.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Economics Department')),

('Shishio', 'Tsukasa', 'tsushi@tutor.edu', '4045612357', 'NULL'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Economics Department')),

('Asagiri', 'Gen', 'genasa@tutor.edu', '6789876543', 'https://GenAsagiri.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'World Languages Department')),

('Weinburg', 'Ruri', 'rurwei@tutor.edu', '7705148368', 'https://RuriWeinburg.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Math Department')),

('Weinburg', 'Kohaku', 'kohwei@tutor.edu', '7708809990', 'https://KohakuWeinburg.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'History Department')),

('Kumeno', 'Masachika', 'maskum@tutor.edu', '9736425103', 'https://MasachikaKumeno.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Math Department')),

('Sato', 'Asami', 'asasat@tutor.edu', '6783540210', 'https://AsamiSato.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Math Department')),

('Avatar', 'Aang', 'aanava@tutor.edu', '7705503330', 'NULL'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'History Department')),

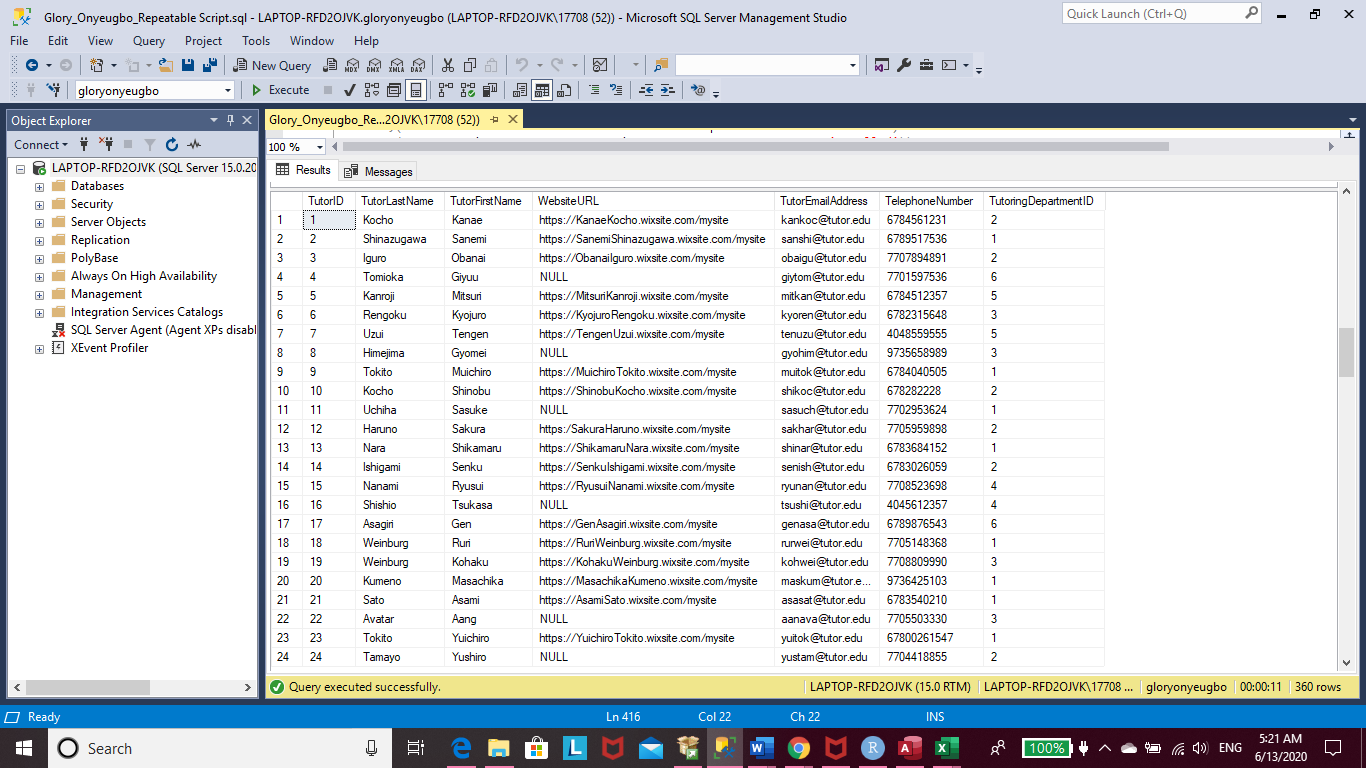
('Tokito', 'Yuichiro', 'yuitok@tutor.edu', '67800261547', 'https://YuichiroTokito.wixsite.com/mysite'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Math Department')),

('Tamayo', 'Yushiro', 'yustam@tutor.edu', '7704418855', 'NULL'

,(SELECT TutoringDepartmentID FROM TutoringDepartment WHERE DepartmentName = 'Science Department'))

SELECT \* FROM Tutor



-- Time to pair students with tutors!!!

INSERT INTO StudentSubjectHelp(StudentID, TutorID, SubjectListID)

VALUES ((SELECT StudentID FROM Student WHERE StudentFirstName = 'Tanjiro')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Kyojuro')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'US History')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Tanjiro')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Obanai')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Chemistry')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Nezuko')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Muichiro')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Pre-algebra')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Genya')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Sanemi')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Calculus')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Takeo')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Muichiro')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Pre-algebra')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Naho')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Kanae')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Physical Science')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Sumi')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Ruri')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Numbers and Operations')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Zenitsu')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Shinobu')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Biology')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Gambia')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Obanai')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Chemistry')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Inosuke')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Shinobu')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Biology')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Lonni')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Sanemi')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'AP Calculus')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Inosuke')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Mitsuri')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'American Literature')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Celeste')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Senku')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Chemistry')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Alita')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Kanae')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Physical Science')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Nigeria')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Gyomei')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'AP US History')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Nezuko')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Tengen')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'English')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Nigeria')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Sanemi')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'AP Calculus')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Ghana')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Giyuu')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Spanish')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Celeste')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Gen')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'French')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Katara')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Tsukasa')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Microeconomics')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Celeste')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Ryusui')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Macroeconomics')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Celeste')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Shikamaru')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Geometry')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Hinata')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Obanai')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'AP Physics')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Kiyo')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Asami')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Numbers and Operations')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Shea')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Sasuke')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Statistics and Probability')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Aoi')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Kyojuro')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'US Government')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Sokka')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Masachika')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Pre-algebra')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Alita')

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Sakura')

,(SELECT SubjectListID FROM SubjectList WHERE SubjectName = 'Physical Science'))

SELECT \* FROM StudentSubjectHelp

-- Time to set up some tutoring sessions

INSERT INTO TutorSession (SessionName, SessionTypeID, SessionLocation, SessionDay, SessionStartTime, TutorID, SessionStatusID)

VALUES ('Individual History Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'INDIVIDUAL FACE-TO-FACE')

, 'TBD', 'Saturday', '12:30'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Kyojuro')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Upcoming')),

('Group Chemistry Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'GROUP FACE-TO-FACE')

, 'Tutoring Center: Room 101', 'Wednesday', '17:00'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Obanai')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Upcoming')),

('Individual Calculus Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'INDIVIDUAL FACE-TO-FACE')

, 'Student Home', 'Friday', '16:30'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Sanemi')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Complete')),

('Group Biology Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'GROUP ONLINE')

, 'TBD', 'Saturday', '14:30'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Shinobu')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Upcoming')),

('Group Physical Science Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'GROUP FACE-TO-FACE')

, 'Tutoring Center: Room 104', 'Tuesday', '16:30'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Kanae')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Rescheduled')),

('Group AP Calculus Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'GROUP FACE-TO-FACE')

, 'Tutoring Center: Room 110', 'Sunday', '10:45'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Sanemi')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Complete')),

('Individual Spanish Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'INDIVIDUAL FACE-TO-FACE')

, 'Tutoring Center: Room 102', 'Thursday', '16:00'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Giyuu')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Upcoming')),

('Individual Chemistry Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'INDIVIDUAL FACE-TO-FACE')

, 'Student Home', 'Tuesday', '12:30'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Obanai')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Never Attended')),

('Individual Pre-algebra Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'INDIVIDUAL FACE-TO-FACE')

, 'Student Home', 'Saturday', '12:30'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Masachika')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Complete')),

('Individual Numbers and Operations Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'INDIVIDUAL FACE-TO-FACE')

, 'Student Home', 'Sunday', '13:00'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Asami')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Cancelled')),

('Individual Physical Science Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'INDIVIDUAL FACE-TO-FACE')

, 'Student Home', 'Monday', '15:00'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Sakura')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Rescheduled')),

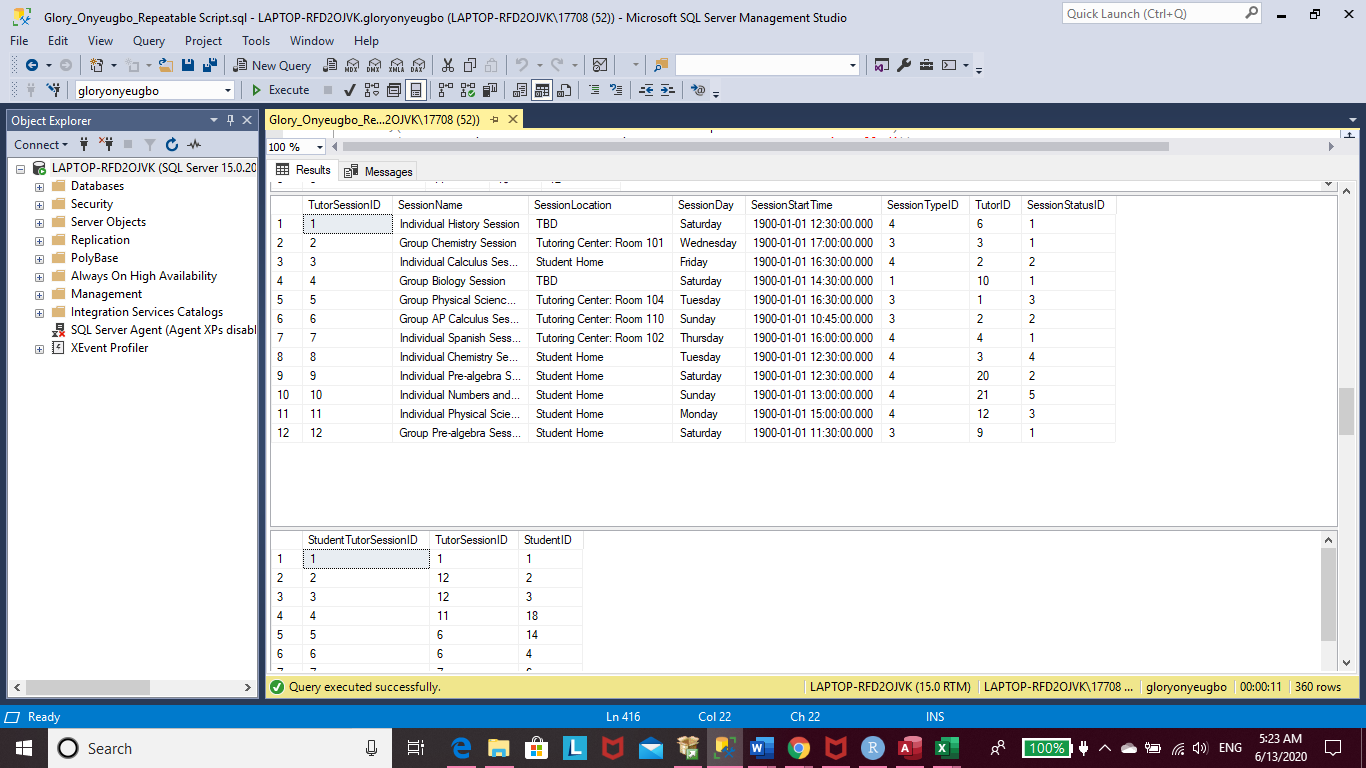
('Group Pre-algebra Session', (SELECT SessionTypeID FROM SessionType WHERE SessionMedium = 'GROUP FACE-TO-FACE')

, 'Student Home', 'Saturday', '11:30'

,(SELECT TutorID FROM Tutor WHERE TutorFirstName = 'Muichiro')

,(SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Upcoming'))

SELECT \* FROM TutorSession



-- We must place students in their respective tutoring sessions

INSERT INTO StudentTutorSession(StudentID, TutorSessionID)

VALUES ((SELECT StudentID FROM Student WHERE StudentFirstName = 'Tanjiro')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Individual History Session'

AND SessionLocation = 'TBD')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Nezuko')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Group Pre-algebra Session'

AND SessionLocation = 'Student Home')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Takeo')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Group Pre-algebra Session'

AND SessionLocation = 'Student Home')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Alita')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Individual Physical Science Session'

AND SessionLocation = 'Student Home')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Lonni')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Group AP Calculus Session'

AND SessionLocation = 'Tutoring Center: Room 110')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Nigeria')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Group AP Calculus Session'

AND SessionLocation = 'Tutoring Center: Room 110')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Ghana')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Individual Spanish Session'

AND SessionLocation = 'Tutoring Center: Room 102')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Zenitsu')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Group Biology Session'

AND SessionLocation = 'TBD')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Inosuke')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Group Biology Session'

AND SessionLocation = 'TBD')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Tanjiro')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Group Chemistry Session'

AND SessionLocation = 'Tutoring Center: Room 101')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Naho')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Group Physical Science Session'

AND SessionLocation = 'Tutoring Center: Room 104')),

((SELECT StudentID FROM Student WHERE StudentFirstName = 'Genya')

,(SELECT TutorSessionID FROM TutorSession WHERE SessionName = 'Individual Calculus Session'

AND SessionLocation = 'Student Home'))

SELECT \* FROM StudentTutorSession

-- Create a view of tutors and their students

GO

CREATE VIEW TutorViewStudents

AS

SELECT

Tutor.TutorFirstName + ' ' + Tutor.TutorLastName AS Tutor,

Student.StudentFirstName + ' ' + Student.StudentLastName AS Student,

Household.HomeAddress AS StudentHome,

Household.TelephoneNumber AS StudentNumber,

Student.StudentEmailAddress AS StudentEmail

FROM StudentSubjectHelp

JOIN Tutor ON Tutor.TutorID = StudentSubjectHelp.TutorID

JOIN Student ON Student.StudentID = StudentSubjectHelp.StudentID

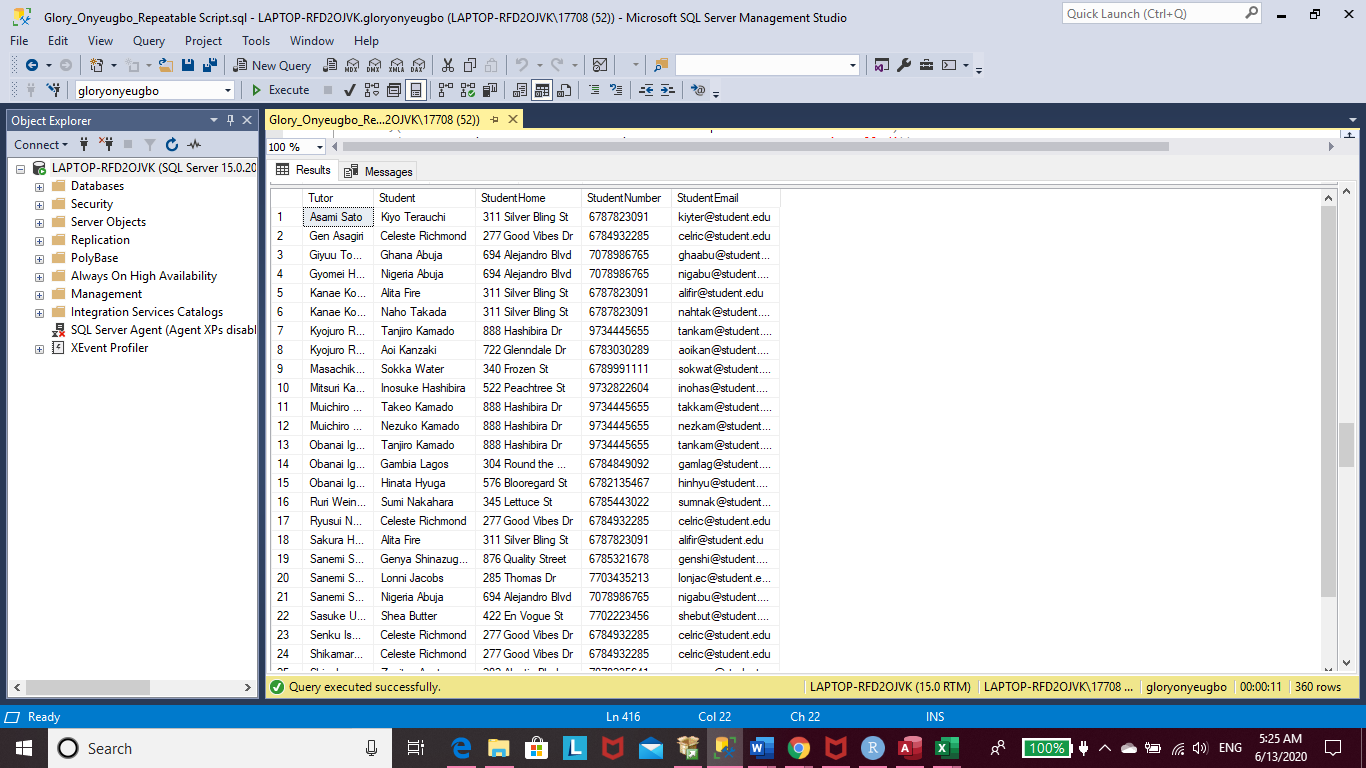
CROSS JOIN Household WHERE Household.HouseholdID = Student.HouseholdID

GO

SELECT \* FROM TutorViewStudents

ORDER BY Tutor

GO



-- Create view of tutors in their respective departments

CREATE VIEW TutoringDepartmentTutors

AS

SELECT

TutoringDepartment.DepartmentName AS Department,

Tutor.TutorFirstName + ' ' + Tutor.TutorLastName AS Tutor,

Tutor.TutorEmailAddress AS EmailAddress,

Tutor.TelephoneNumber AS TelephoneNumber

FROM Tutor

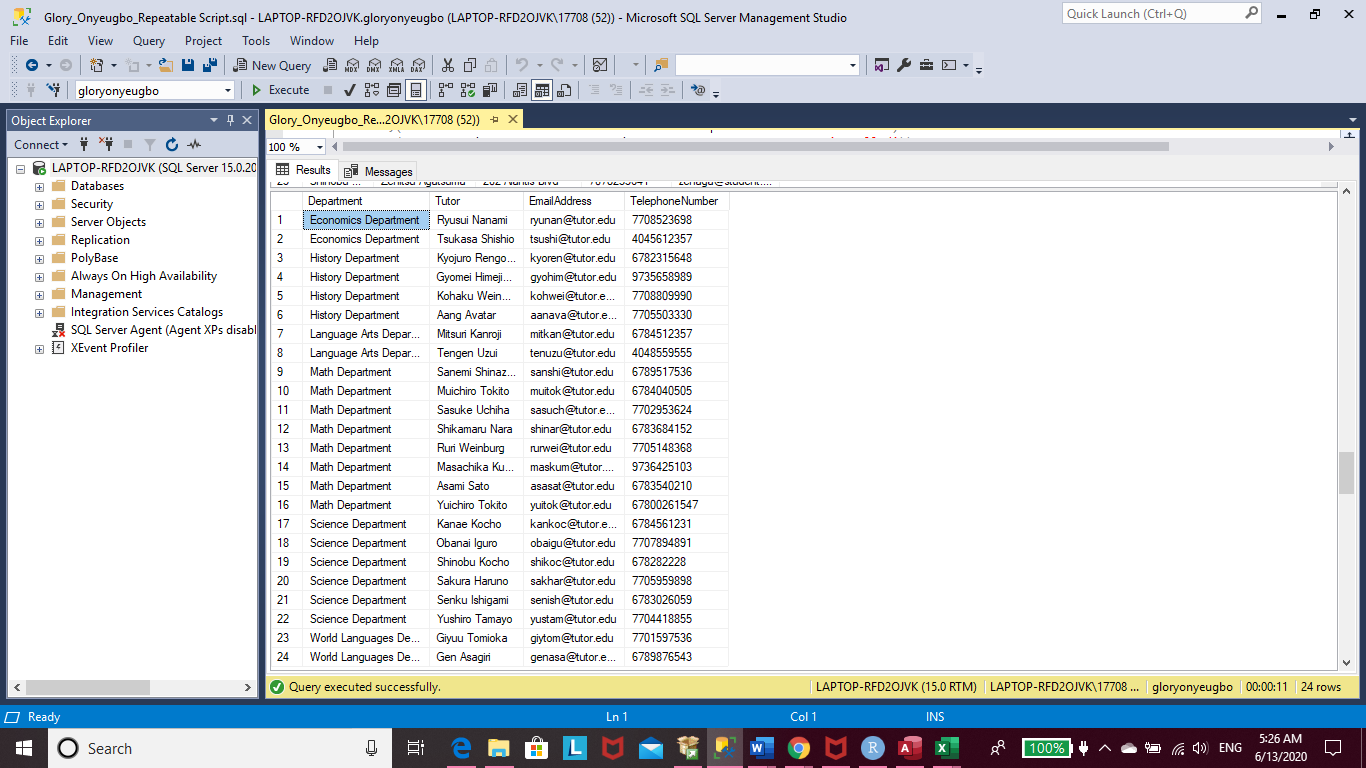
JOIN TutoringDepartment ON TutoringDepartment.TutoringDepartmentID = Tutor.TutoringDepartmentID

GO

SELECT \* FROM TutoringDepartmentTutors

ORDER BY Department

GO



-- Create a view where tutors can view their sessions

CREATE VIEW TutorAndStudentSessions

AS

SELECT

Tutor.TutorFirstName + ' ' + Tutor.TutorLastName AS Tutor,

Student.StudentFirstName + ' ' + Student.StudentLastName AS Student,

TutorSession.SessionName AS Session,

TutorSession.SessionDay AS DAY,

TutorSession.SessionStartTime AS StartTime,

SessionStatus.SessionStatusText AS Status

FROM StudentTutorSession

JOIN Student ON Student.StudentID = StudentTutorSession.StudentID

JOIN TutorSession ON TutorSession.TutorSessionID = StudentTutorSession.TutorSessionID

CROSS JOIN Tutor, SessionStatus WHERE Tutor.TutorID = TutorSession.TutorID

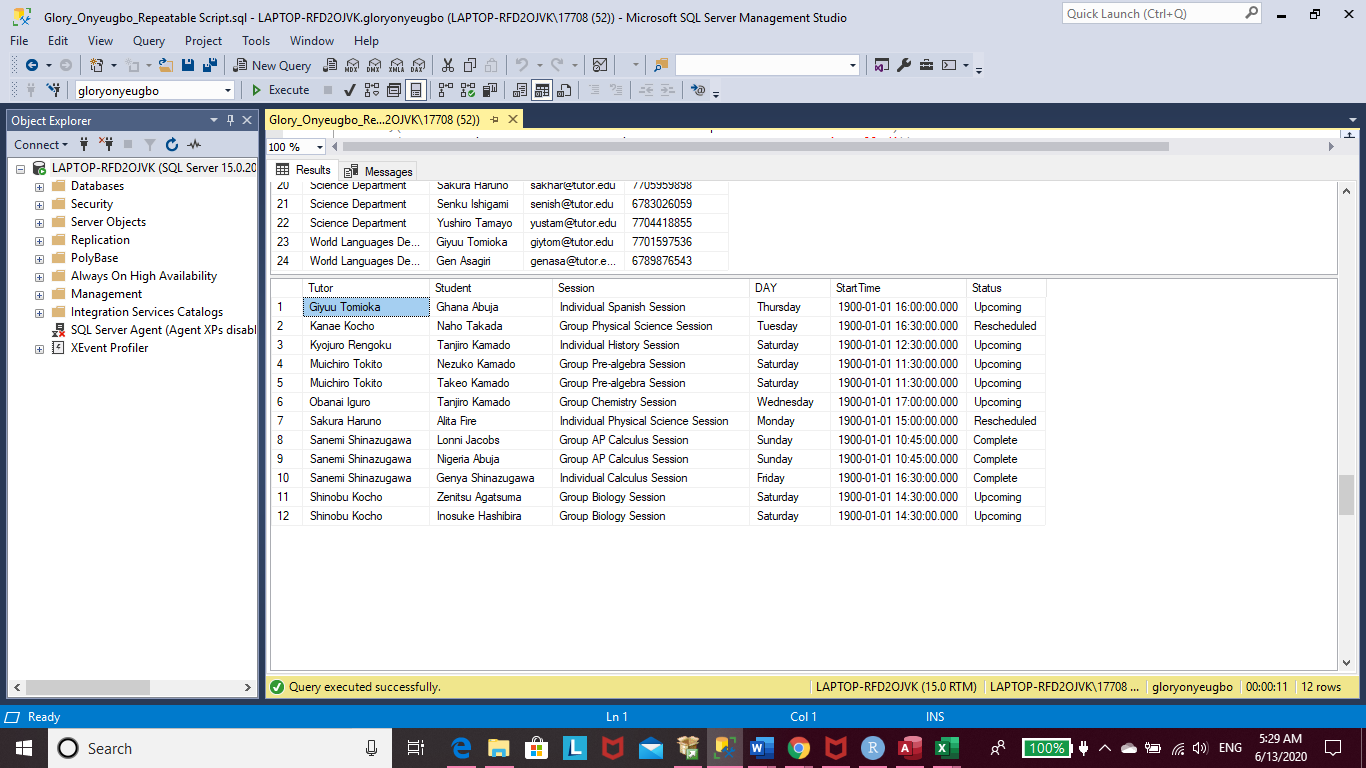
AND SessionStatus.SessionStatusID = TutorSession.SessionStatusID

GO

SELECT \* FROM TutorAndStudentSessions

ORDER BY Tutor, Status

GO



--Create a procedure that updates a student’s status to complete a new student to the database

CREATE PROCEDURE UpdateStudentStatus (@studentID int)

AS

BEGIN

Update Student

SET UpdateDate = GETDATE(),

StudentStatusID = (SELECT StudentStatusID FROM StudentStatus

WHERE StatusName = 'Completed')

WHERE StudentID = @studentID

END

GO

/\* The students Tanjiro Kamado, Nigeria Abuja, and Genya Shinazugawa

have all completed the tutoring program. We will now update their

student status to complete.

Completed has a studentstatusID of 4.

\*/

DECLARE @firststudentID int

SET @firststudentID = (SELECT StudentID FROM Student WHERE StudentFirstName = 'Tanjiro' AND StudentLastName = 'Kamado')

EXEC UpdateStudentStatus @firststudentID

GO

DECLARE @secondstudentID int

SET @secondstudentID = (SELECT StudentID FROM Student WHERE StudentFirstName = 'Nigeria' AND StudentLastName = 'Abuja')

EXEC UpdateStudentStatus @secondstudentID

GO

DECLARE @thirdstudentID int

SET @thirdstudentID = (SELECT StudentID FROM Student WHERE StudentFirstName = 'Genya' AND StudentLastName = 'Shinazugawa')

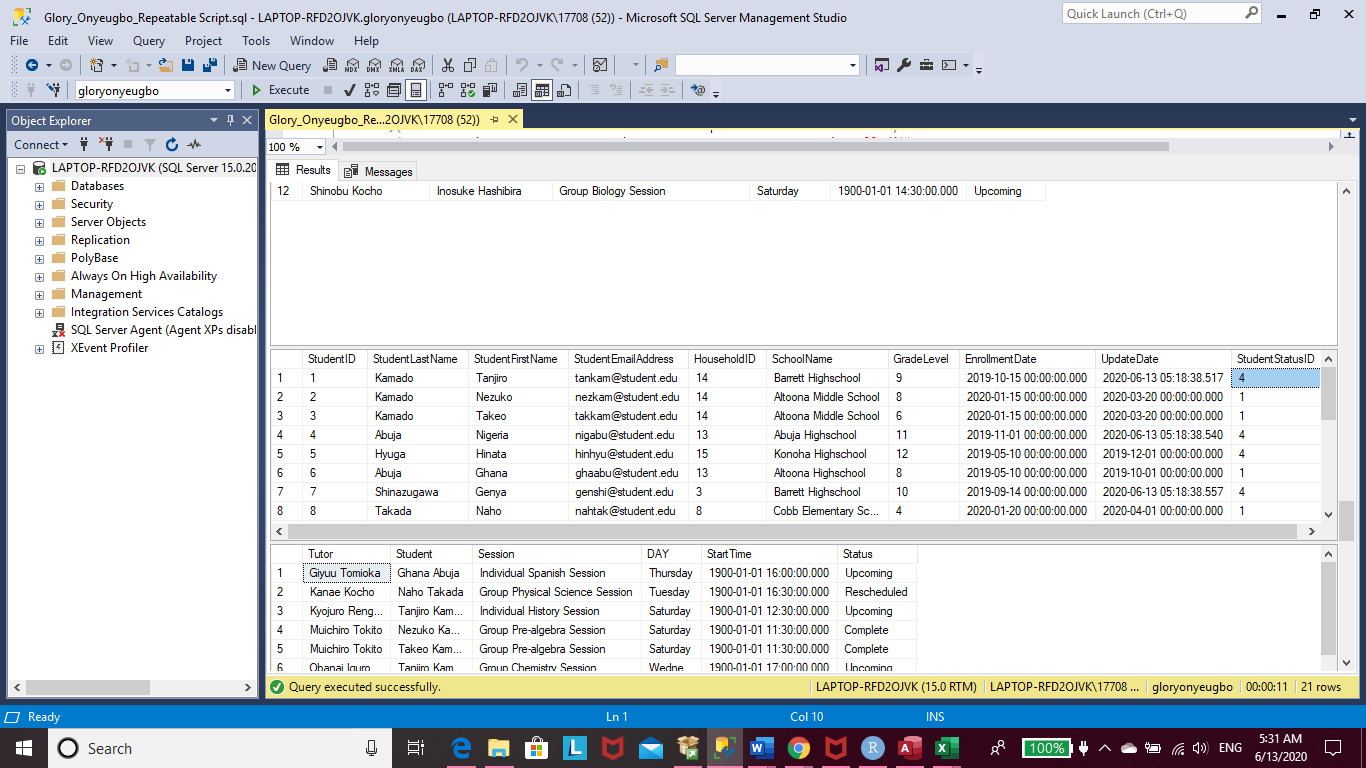
EXEC UpdateStudentStatus @thirdstudentID

GO

-- Now we want to see if the three students' statuses have updated successfully

SELECT \* FROM Student

GO



-- All three students' status were successfully updated

-- Create a procedure that updates a session status to complete.

CREATE PROCEDURE CompleteSession (@sessionID int)

AS

BEGIN

Update TutorSession

SET SessionStatusID = (SELECT SessionStatusID FROM SessionStatus WHERE SessionStatusText = 'Complete')

WHERE TutorSessionID = @sessionID

END

GO

-- Some sessions have complete over the passage of time

DECLARE @sessionID int

SET @sessionID = (SELECT TutorSessionID FROM TutorSession

WHERE SessionName = 'Group Pre-algebra Session'

AND SessionLocation = 'Student Home')

EXEC CompleteSession @sessionID

GO

SELECT \* FROM TutorAndStudentSessions

ORDER BY Tutor, Status

GO

DECLARE @secondsessionID int

SET @secondsessionID = (SELECT TutorSessionID FROM TutorSession

WHERE SessionName = 'Individual Spanish Session'

AND SessionLocation = 'Tutoring Center: Room 102')

EXEC CompleteSession @secondsessionID

GO

-- Let's check if each session was successully completed

SELECT \* FROM TutorAndStudentSessions

ORDER BY Tutor, Status

GO

-- Both sessions are now fully completed

-- Create a procedure that removes an inactive student from the database

CREATE PROCEDURE RemoveStudent (@studentID int)

AS

BEGIN

DELETE FROM StudentSubjectHelp

FROM StudentSubjectHelp

INNER JOIN Student ON Student.StudentID = StudentSubjectHelp.StudentID

WHERE Student.StudentID = @studentID

AND StudentStatusID = (SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Inactive')

END

GO

/\* We want to remove the student Gambia Lagos from the database.

She was last active on March 1, 2019.

\*/

DECLARE @studentID int

SET @studentID = (SELECT StudentID FROM Student WHERE StudentFirstName = 'Gambia')

EXEC RemoveStudent @studentID

GO

-- Let's see if Gambia has been removed from the list of student shas been removed from our list of students.

SELECT \* FROM Student

GO

-- Data Question 1: Which subject receives the most tutoring request among students?

SELECT

SubjectList.SubjectName AS Subject,

Count(SubjectList.SubjectName) AS NumberOfRequests

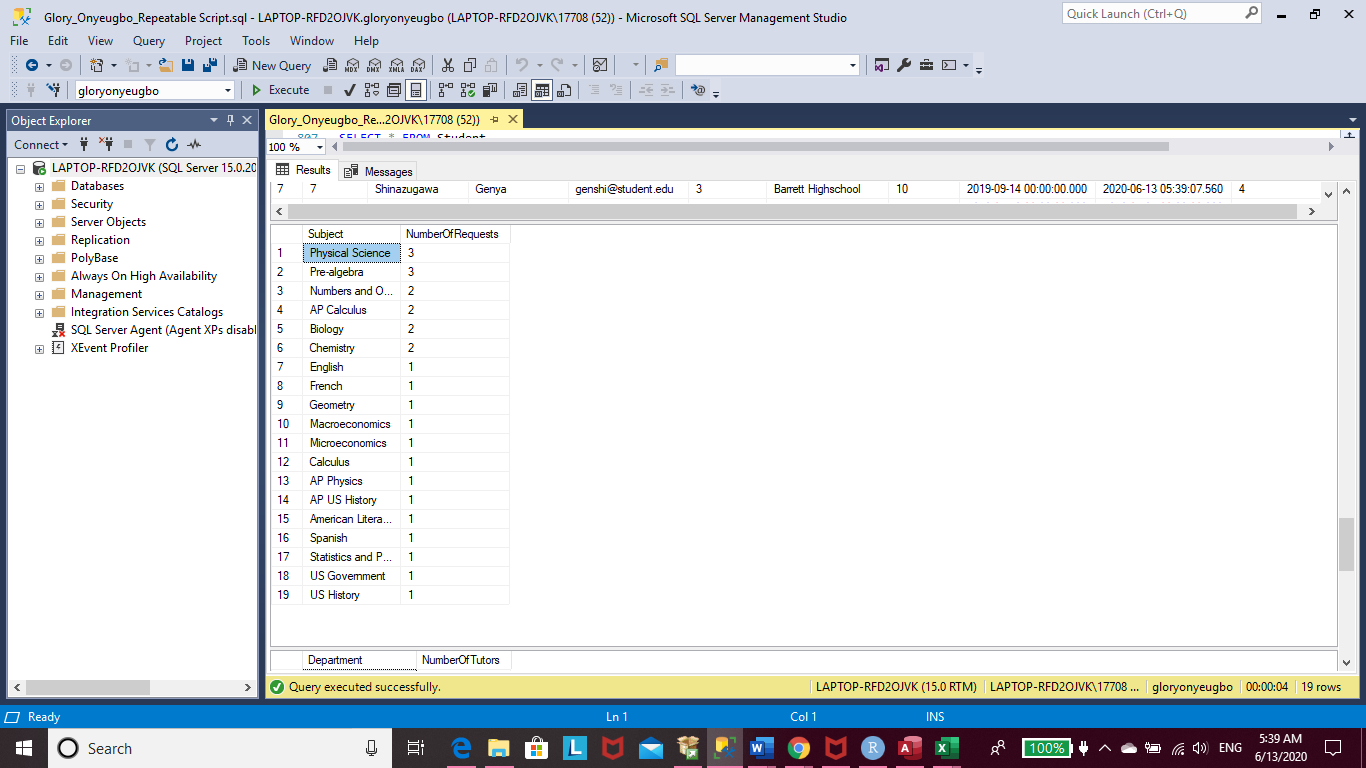
FROM StudentSubjectHelp

INNER JOIN SubjectList ON SubjectList.SubjectListID = StudentSubjectHelp.SubjectListID

GROUP BY SubjectList.SubjectName

ORDER BY NumberOfRequests DESC

GO



/\*

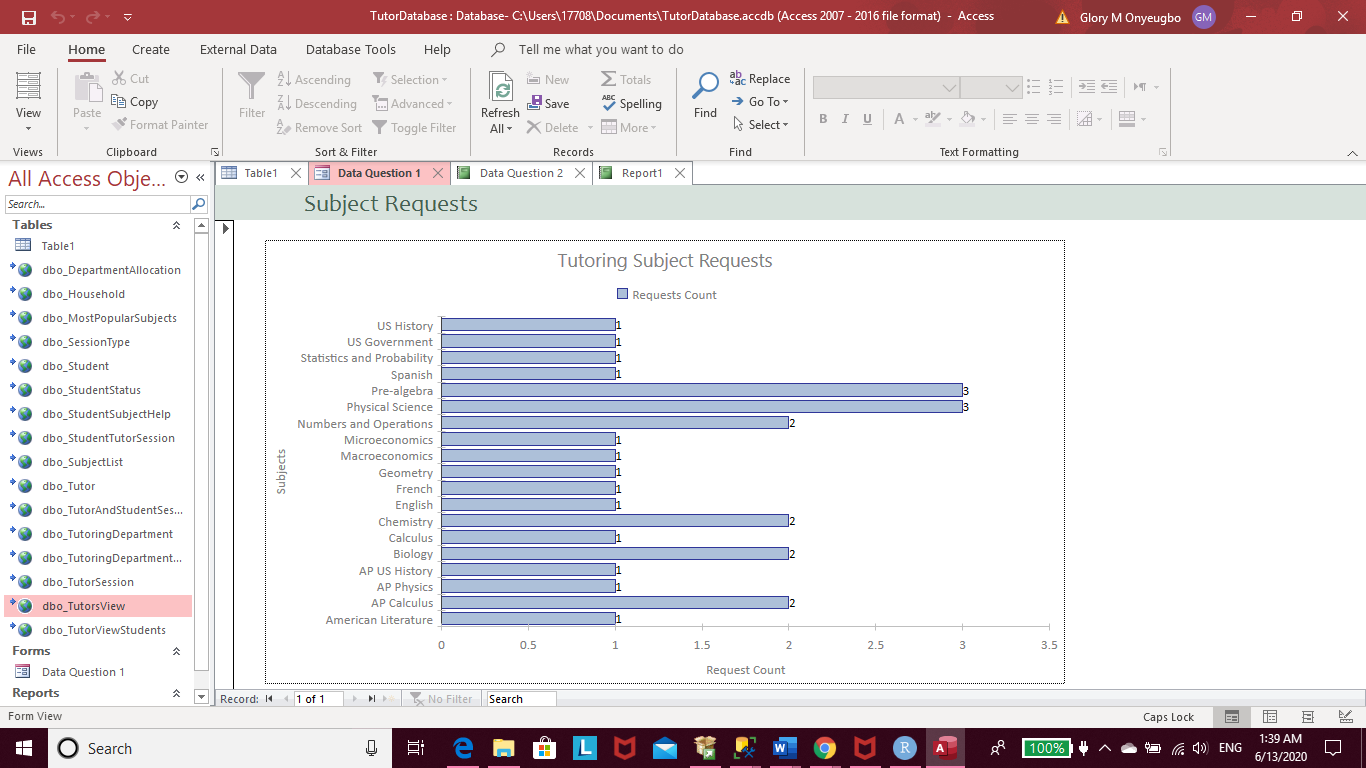
Pre-algebra and Physical Science are the tutoring subjects that the most sought after by students.

Both subjects have three requests each. The second most requested subjects amongs students are Numbers and Operations,

Chemistry, Biology, and AP Calculus, all of which have been requested by two students each. It seems that students mainly

seek help on math or science-based subjects.

\*/



-- Data Question 2: Is there an uneven allocation of tutors in different subject areas?

SELECT

Department,

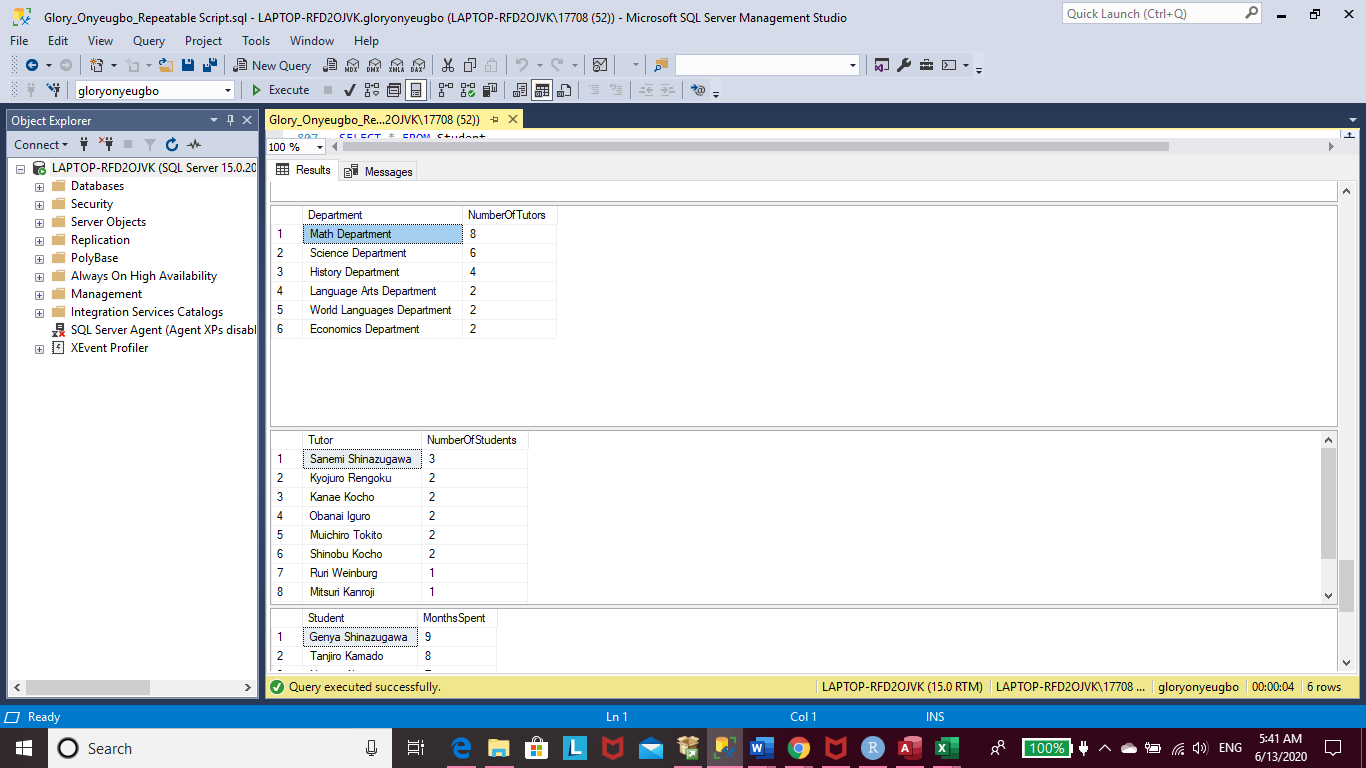
COUNT(TutoringDepartmentTutors.Department) AS NumberOfTutors

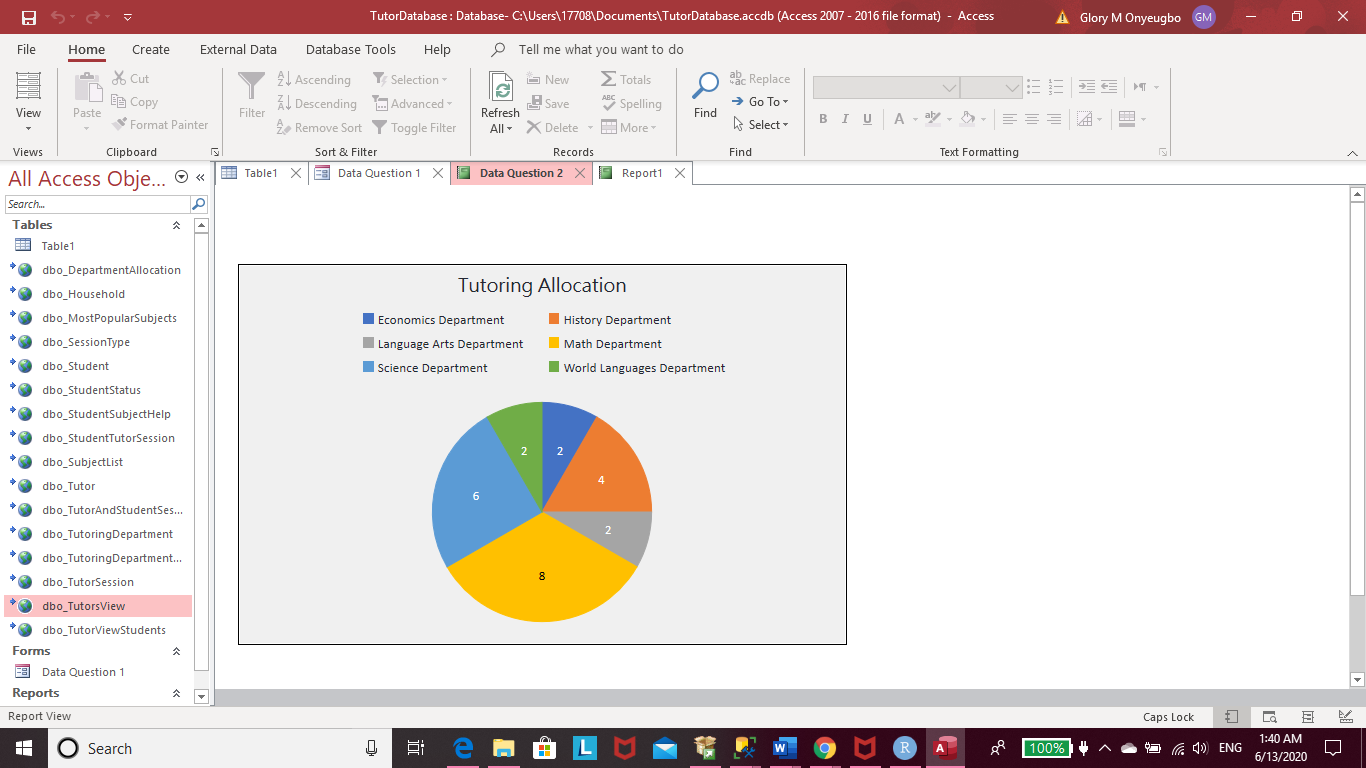
FROM TutoringDepartmentTutors

GROUP BY Department

ORDER BY NumberOfTutors DESC

GO





/\* The Math Department has 8 out of 24 tutors working in it, whereas, the Language Arts,

World Languages, and Economics Departments have the least number of tutors with two tutors in each

department. Thus, the Math Department has 1/3 (or 33%) of the center's tutors, the Science Department has

25% of the tutors, the History Department has about 16.7% of the tutors, and the other three departments have

8.3% of the tutors in each department.

The is an uneven allocation of tutors spread throughout the departments within the tutoring center. However, as

we discovered before, most students request tutoring in the math and science subject areas. Therefore, the distribution

of tutors may be uneven within the departments but practical.

\*/

-- Data Question 3: Which tutor has the most students on their schedule?

SELECT TOP 10

Tutor,

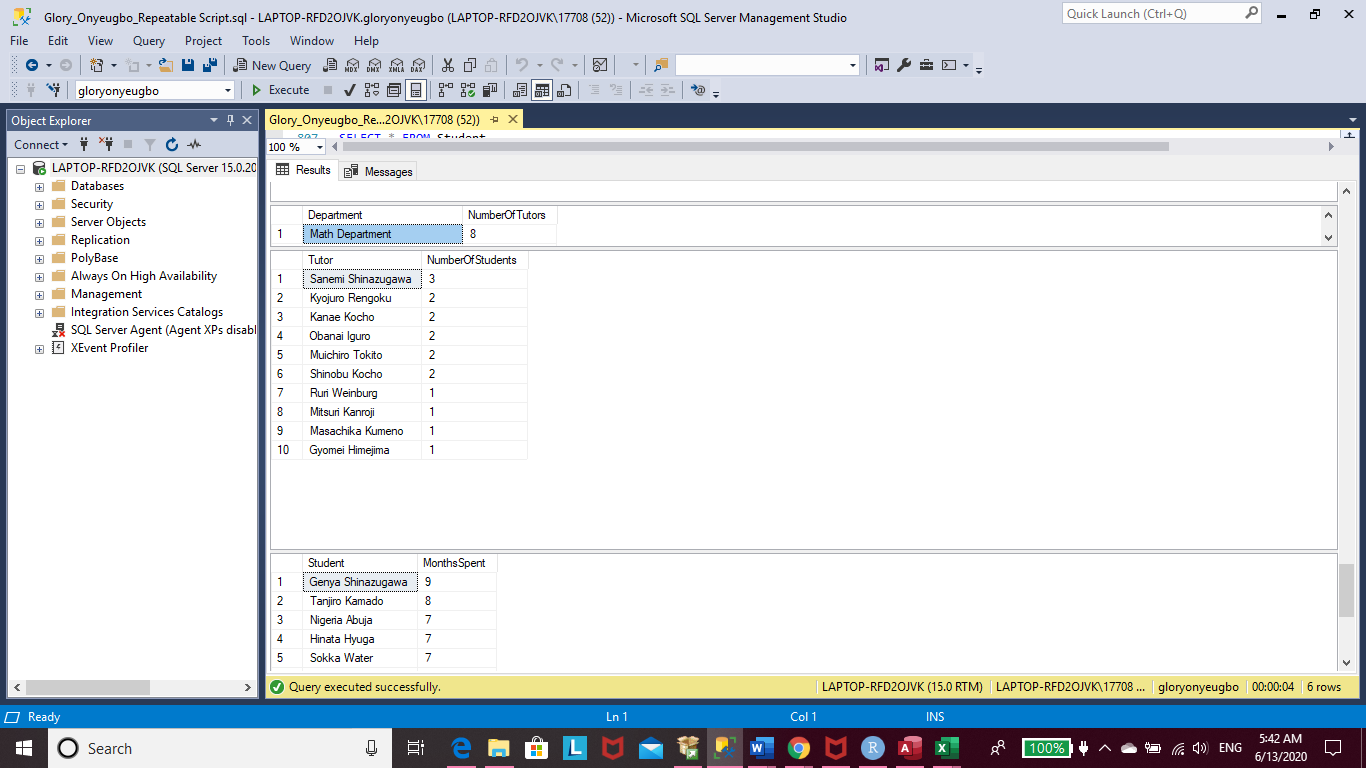
COUNT(Tutor) AS NumberOfStudents

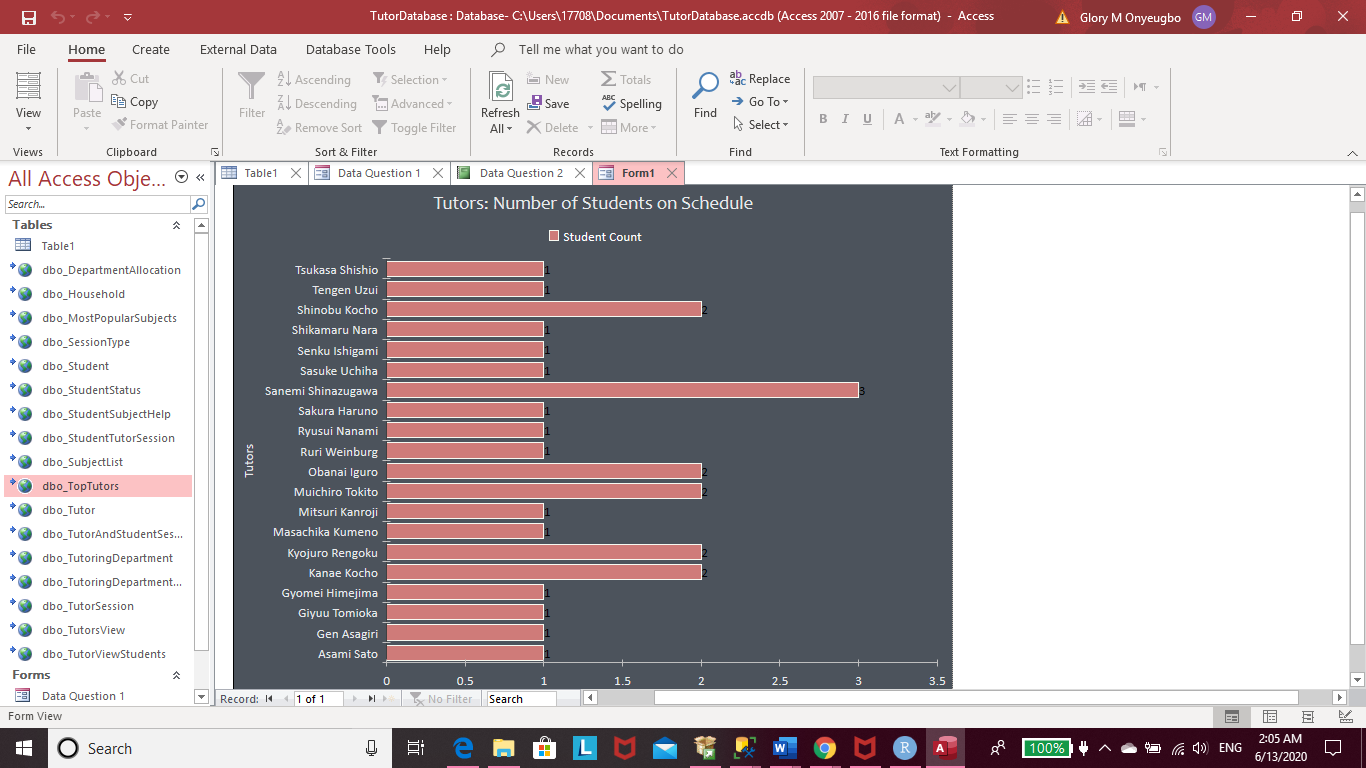
FROM TutorViewStudents

GROUP BY Tutor

ORDER BY NumberOfStudents DESC

GO



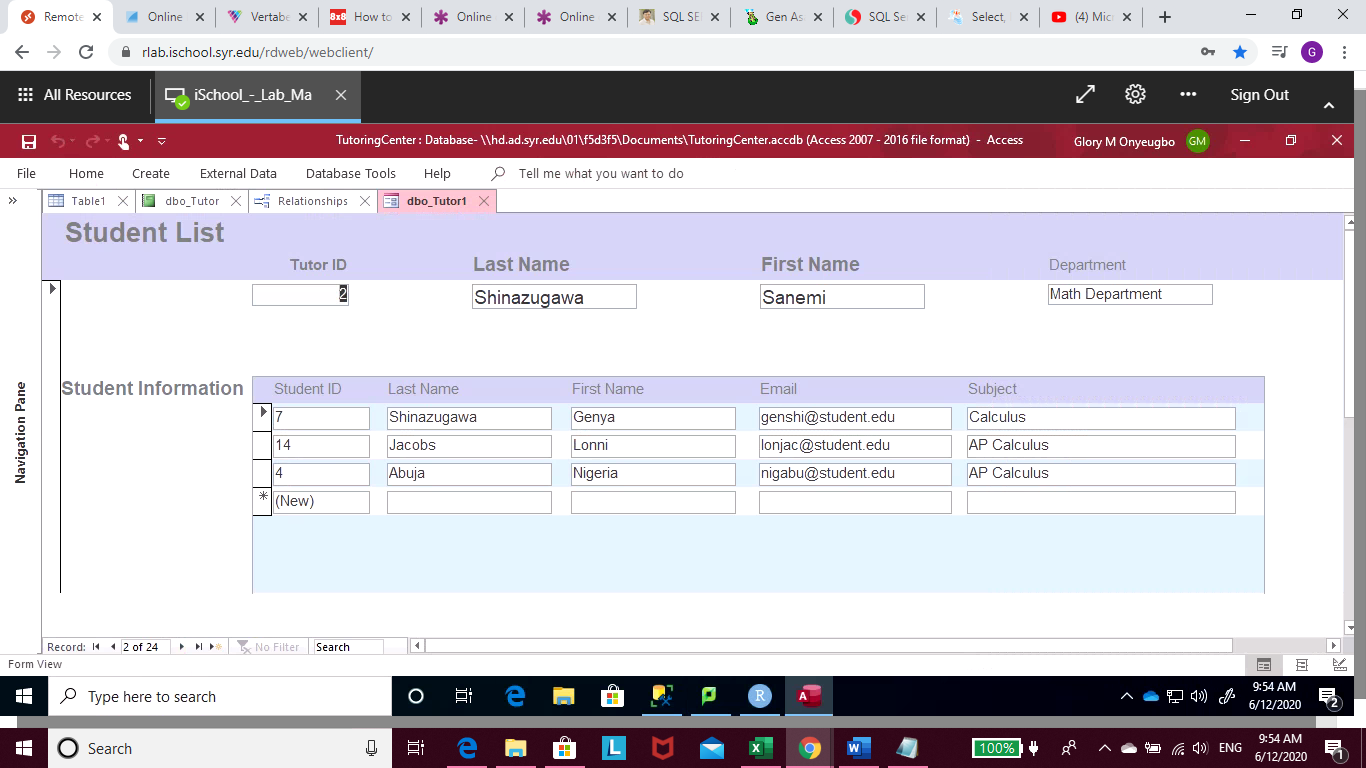


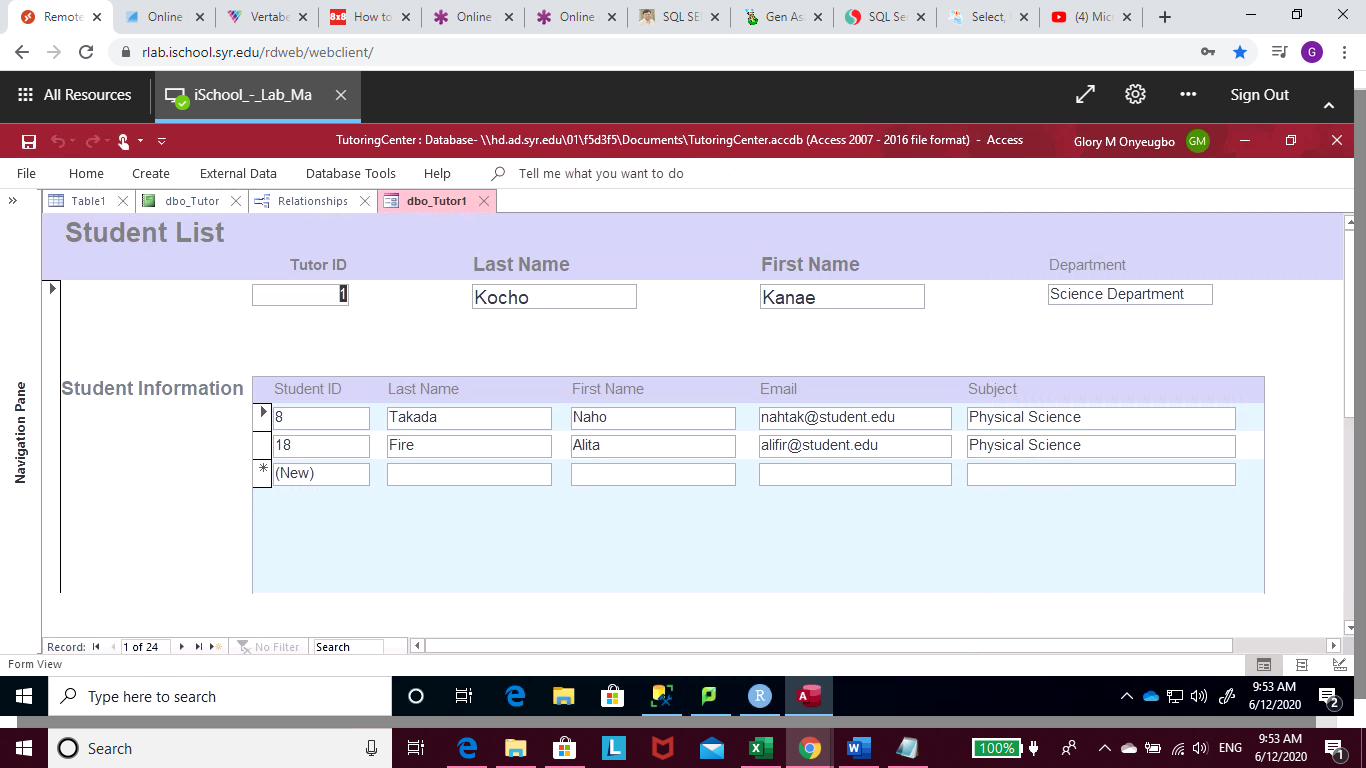
/\* Tutor, Sanemi Shinazugawa, has the most students on his schedule, with three students. Shinobu Kocho,

Muichiro Tokito, Obanai Iguro, Kanae Kocho, and Kyojuro Rengoku come in second place and each have

two students on their schedule.

\*/





-- Data Question 4: What is the average length of time a student stays in the program?

SELECT

Student.StudentFirstName + ' ' + Student.StudentLastName AS Student,

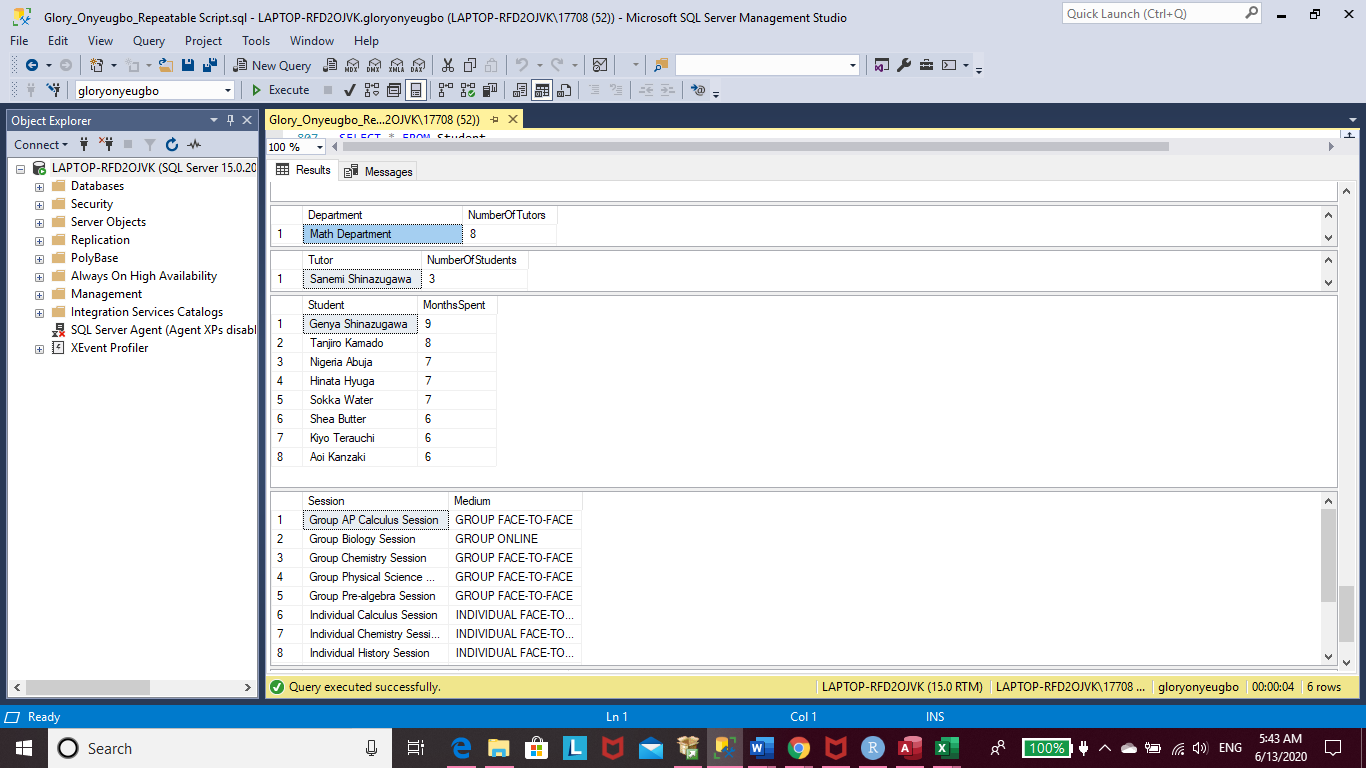
DATEDIFF(mm, Student.EnrollmentDate, Student.UpdateDate) AS MonthsSpent

FROM Student

WHERE StudentStatusID = (SELECT StudentStatusID FROM StudentStatus WHERE StatusName = 'Completed')

ORDER BY MonthsSpent DESC

GO



/\* Out of eight students who have completed the program,

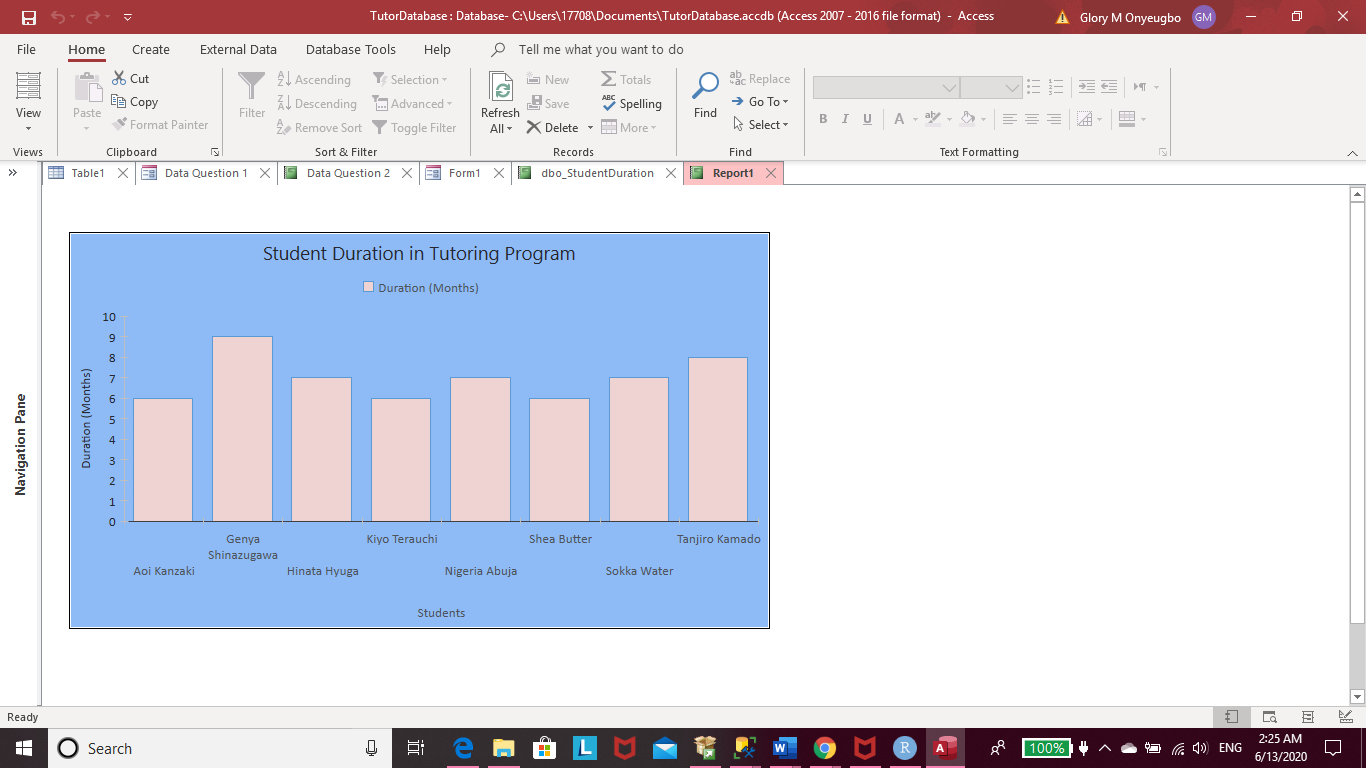
1 student completed it in 9 months, 1 student finished in 8 months,

3 finished in 7 months, and another 3 finished in 6 months.

\*/

-- In most cases, students generally finish the program in 6-7 months to complete the program.

-- Create a histogram to show this



-- Data Question 5: Which tutoring medium is requested the most amongst students?

SELECT

TutorSession.SessionName AS Session,

SessionType.SessionMedium AS Medium

FROM TutorSession

JOIN SessionType ON SessionType.SessionTypeID = TutorSession.SessionTypeID

ORDER BY Session

SELECT

SessionType.SessionMedium AS Medium,

COUNT(TutorSession.SessionTypeID) AS NumberOfRequests

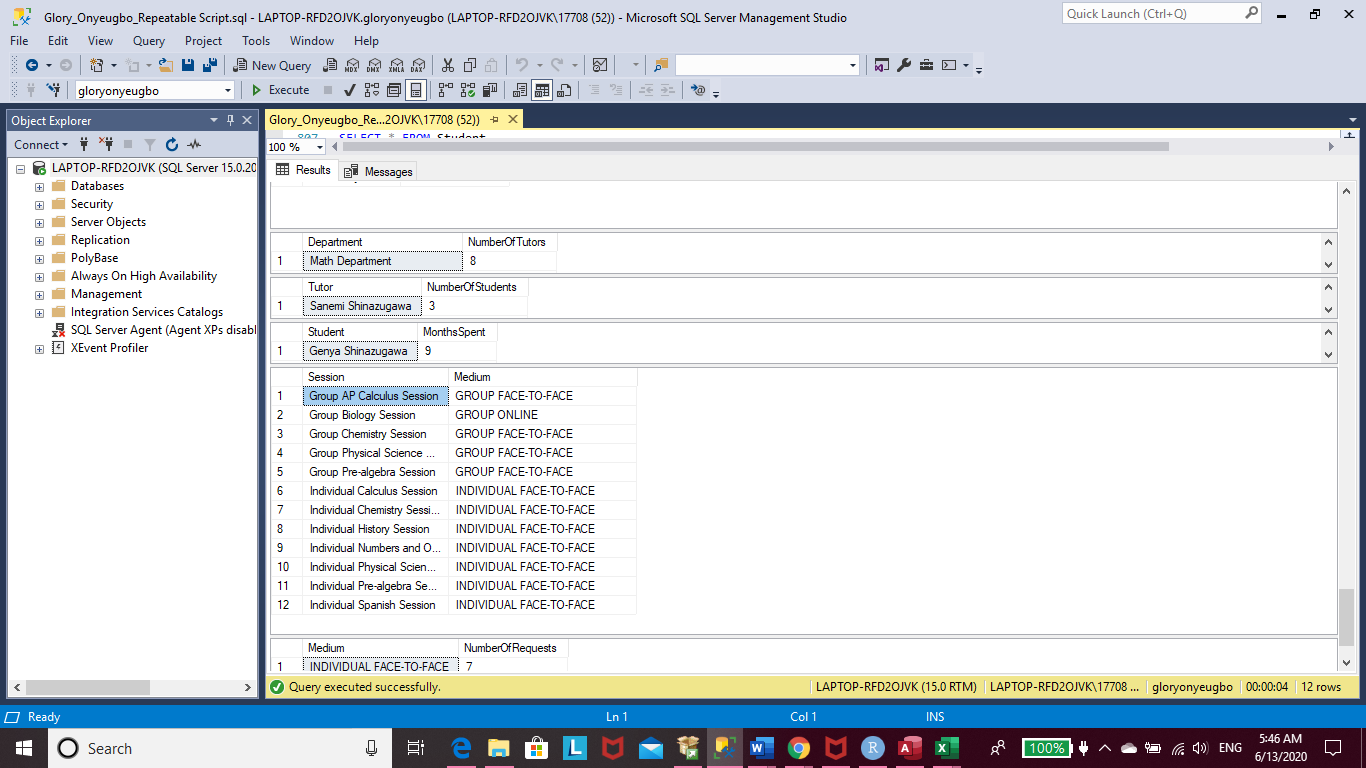
FROM TutorSession

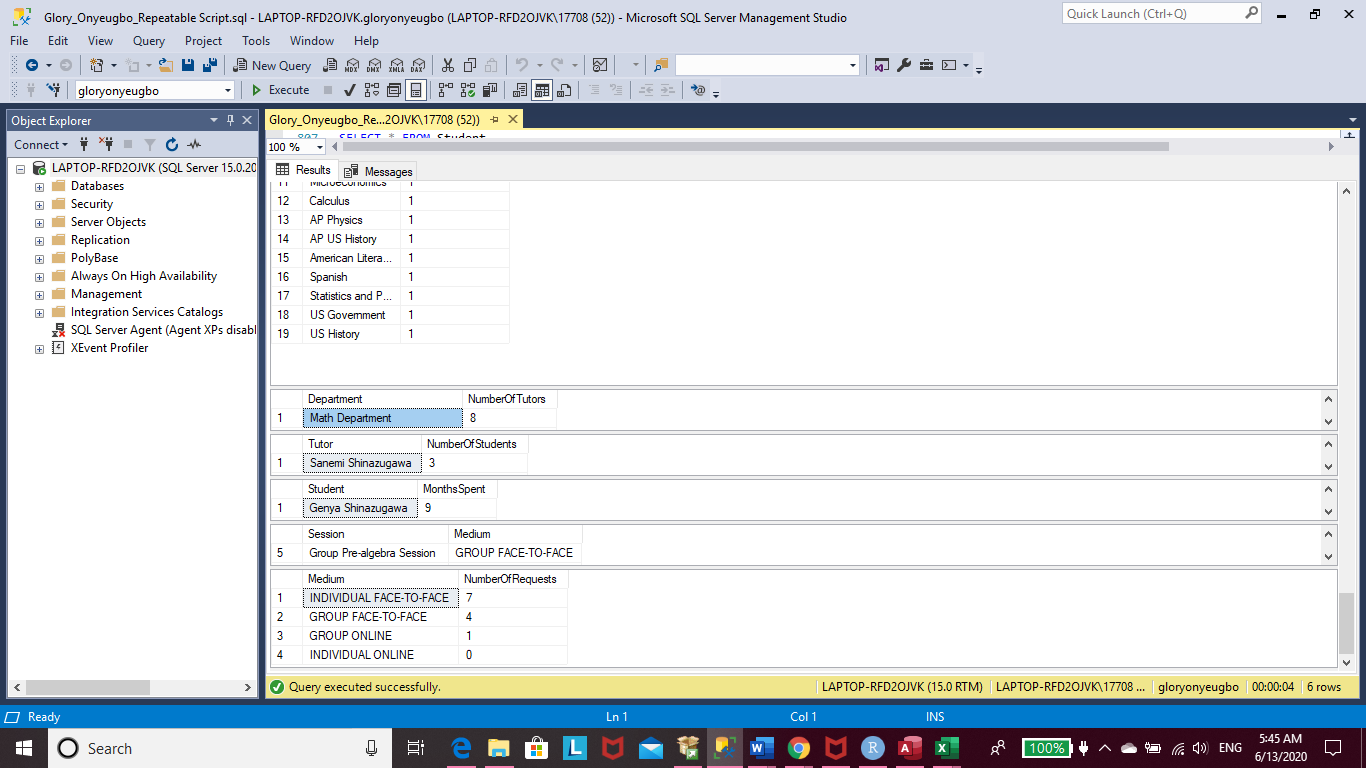
RIGHT JOIN SessionType ON SessionType.SessionTypeID = TutorSession.SessionTypeID

GROUP BY SessionType.SessionMedium

ORDER BY NumberOfRequests DESC

GO





/\* Students frequently ask to have to have individual, in-person, sessions with their tutors.

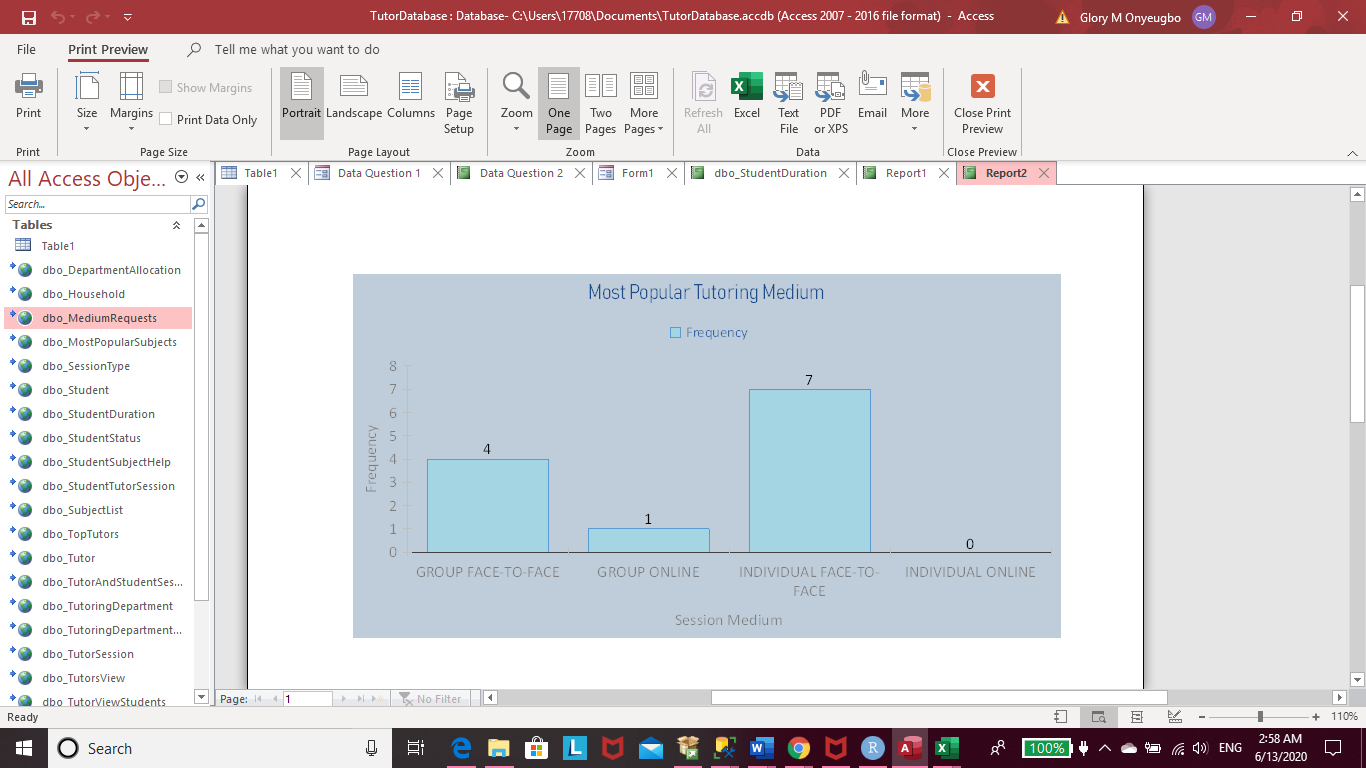
However, there are not requests from students to have individual sessions online. In fact,

students seem to prefer face-to-face sessions with their tutors rather than online session.

There are four requests for group sessions face-to-face and only one request for an online

group session.

\*/



**Reflection**

Throughout the entire process of this project, there were times where I was completely unsure of myself as well as the steps I was taking. For instance, at first, I believed the concept for the project was too simple and constantly came up with ways to overcomplicated. However, the thought became more subdued as I went along in the course and had to apply what I was learning from the course towards labs and then towards my project. I had to rework my conceptual and logical models many times until I had something I was confident in working with. That is to say that I greatly underestimated how much work I had to put into every step of this project, from the conceptual design to the data implementation. I originally believed that having a vast amount of data in my database then I will have more to work with. However, it also allowed for more error within the code and more time spent trying to find and then solve those errors. Overall, I have learned many things about data collection, manipulation, and implementation that I can take with me in the future.

**Summary**

The changes made to both the conceptual and logical models were crucial to the physical design of the database. Throughout this process, we were able to learn more about the center and find ways to improve the program for both the tutors as well as the students. We learned there are more tutors that work with math and science than any other department in the center. We also discover that students struggle more in math and science disciplines than any other subject. Using Microsoft Access, we were able to interact with the data in our database and answer important questions about our data that are critical to the growth of Student’s Oasis Tutoring Center.