Web site used: https://www.mycompiler.io/new/sql

CREATE TABLE Students (

StudentID VARCHAR2 PRIMARY KEY,

StudentName VARCHAR2(50),

StudentMiddleName VARCHAR2(50),

StudentSurname VARCHAR2(50),

StudentDOB DATE,

Gender VARCHAR2(10),

EnrolmentDate DATE,

ClassID NUMBER,

FOREIGN KEY (ClassID) REFERENCES Class(ClassID) ON DELETE CASCADE

);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S001', 'James', 'Marvin', 'Opollo', '12/11/2001', 'Male', '1/4/2019', 1);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S002', 'Anna', 'Dove', 'Hanzs', '6/3/2000', 'Female', '1/1/2019', 1);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S003', 'Donald', 'Din', 'Diamond', '7/2/1998', 'Male', '1/3/2017', 3);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S004', 'Charles', 'Matthew', 'Ron', '4/24/2000', 'Male', '9/4/2020', 2);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S005', 'Ruby', 'Laura', 'Kimani', '10/9/2002', 'Female', '9/3/2019', 1);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S006', 'John', 'Alan', 'Beckett', '11/6/2003', 'Male', '5/2/2020', 1);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S007', 'Angel', 'Lynn', 'Sawyer', '11/15/2002', 'Female', '2/20/2019', 2);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S008', 'Bernard', 'Michael', 'Archer', '10/2/2002', 'Male', '3/3/2020', 1);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S009', 'Martha', 'Ann', 'Harrison', '3/5/2001', 'Female', '5/4/2019', 2);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S010', 'Daisy', 'Marie', 'Arden', '8/20/2004', 'Female', '3/15/2020', 1);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S011', 'Jasmine', 'Rodriguez', 'Ramirez', '3/10/2003', 'Female', '2/2/2019', 2);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S012', 'Liam', 'Campbell', 'Thompson', '9/11/2002', 'Male', '3/1/2020', 1);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S013', 'Sophia', 'Patel', 'Chang', '6/4/2004', 'Female', '4/3/2022', 1);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S014', 'Ethan', 'Nguyen', 'Khan', '8/5/2001', 'Male', '1/1/2018', 4);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S015', 'Mason', 'Brown', 'Kinuthia', '12/9/2000', 'Male', '3/2/2017', 4);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S016', 'Moscow', 'Peter', 'Ochieng', '11/8/2002', 'Male', '6/4/2019', 2);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S017', 'Thendu', 'John', 'Kipchoge', '3/11/2003', 'Male', '2/21/2019', 2);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S018', 'Marion', 'Abdi', 'Hassan', '8/5/2000', 'Female', '9/3/2019', 1);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S019', 'Hannah', 'Nairobi', 'Rashid', '6/13/2003', 'Female', '3/1/2017', 3);

INSERT INTO Students (StudentID, StudentName, StudentMiddleName, StudentSurname, StudentDOB, Gender, EnrolmentDate, ClassID)

VALUES ('S020', 'Mary', 'Wairimu', 'Kariuki', '6/11/2004', 'Female', '5/2/2020', 1);

-- Commit the transaction

COMMIT;

-- List of Students Enrolled After a Certain Date:

SELECT \* FROM Students WHERE EnrolmentDate > '1/1/2020';

-- List of Students in Class 1:

SELECT \* FROM Students WHERE ClassID = 1;

-- List of Male Students

SELECT \* FROM Students WHERE Gender = 'Male';

-- Guardian table

CREATE TABLE Guardian (

GuardianID VARCHAR2 PRIMARY KEY,

GuardianFirstName VARCHAR2(30),

GuardianLastName VARCHAR2(30),

GuardianEmail VARCHAR2(50),

GuardianNumber NUMBER(15)

);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G001', 'Andrew', 'William', 'rewam@outlook.com', 712345678);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G002', 'Hannah', 'Skywaker', 'hanwaker@gmail.com', 747611345);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G003', 'Nadia', 'Wanja', 'nadiawanja@outlook.com', 788263001);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G004', 'John', 'Thomas', 'thomas19s@yahoo.com', 700001232);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G005', 'Pamela', 'Helen', 'p.helen.ph@outlook.com', 755234982);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G006', 'Xavier', 'Williams', 'xavierwil123@gmail.com', 734564089);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G007', 'Scarlett', 'Jones', 'scarlettjones675@gmail.com', 789453678);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G008', 'Elijah', 'Smith', 'elijahsmith908@gmail.com', 754234567);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G009', 'Aiden', 'Taylor', 'aidentaylor435@gmail.com', 798345647);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G010', 'Mia', 'Garcia', 'miagarcia087@gmail.com', 796934546);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G011', 'Paul', 'Ochieng', 'kingochieng@gmail.com', 754234857);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G012', 'Richard', 'Kipchoge', 'rkipchoge@gmail.com', 732946123);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G013', 'Joho', 'Hassan', 'hassanj32@gmail.com', 732945099);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G014', 'Saril', 'Rashid', 'sarilshid3@gmail.com', 743903642);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G015', 'Erica', 'Kariuki', 'ericakk@gmail.com', 732875239);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G016', 'Josephat', 'Lynn', 'josefat2@gmail.com', 793387260);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G017', 'Margaret', 'Archer', 'archerr@gmail.com', 734667812);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G018', 'Jane', 'Arnet', 'arnete@gmail.com', 711890653);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G019', 'Hasel', 'White', 'whitehasle@gmail.com', 732557890);

INSERT INTO Guardian (GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber)

VALUES ('G020', 'Spencer', 'Smith', 'spenzer@gmail.com', 715789204);

-- Commit the transaction

COMMIT;

SELECT GuardianID, GuardianFirstName, GuardianLastName, GuardianEmail, GuardianNumber FROM Guardian;

-- Student\_Guardian table

CREATE TABLE Student\_Guardian (

StudentID VARCHAR2,

GuardianID VARCHAR2,

GuardianType VARCHAR2(20),

FOREIGN KEY (StudentID) REFERENCES Students(StudentID) ON DELETE CASCADE,

FOREIGN KEY (GuardianID) REFERENCES Guardian(GuardianID) ON DELETE CASCADE,

PRIMARY KEY (StudentID, GuardianID)

);

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S001', 'G001', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S002', 'G002', 'Sponsor');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S003', 'G003', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S004', 'G004', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S005', 'G005', 'Sponsor');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S006', 'G006', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S007', 'G007', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S008', 'G008', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S009', 'G009', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S010', 'G010', 'Sponsor');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S011', 'G011', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S012', 'G012', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S013', 'G013', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S014', 'G014', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S015', 'G015', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S016', 'G016', 'Sponsor');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S017', 'G017', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S018', 'G018', 'Parent');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S019', 'G019', 'Sponsor');

INSERT INTO Student\_Guardian (StudentID, GuardianID, GuardianType)

VALUES ('S020', 'G020', 'Parent');

COMMIT;

-- Teacher table

CREATE TABLE Teacher (

TeacherID VARCHAR2 PRIMARY KEY,

TeacherFirstName VARCHAR2(30),

TeacherLastName VARCHAR2(30),

Gender VARCHAR2(20),

TeacherEmailAddress VARCHAR2(40),

TeacherPhoneNumber NUMBER

);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T001', 'Jacob', 'Amy', 'Male', 'Jamy23@gmail.com', 754321123);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T002', 'Rick', 'Brian', 'Male', 'rick.b12@yahoo.com', 114668787);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T003', 'Angela', 'Kamau', 'Female', 'angelk@outlook.com', 773152587);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T004', 'Melissa', 'Kiprono', 'Female', 'm.kiprono@gmail.com', 112476533);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T005', 'Maria', 'Samuel', 'Female', 'rsame@gmail.com', 723458612);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T006', 'Savannah', 'Brooks', 'Female', 'savannahbrooks758@gmail.com', 756345876);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T007', 'Jackson', 'Martinez', 'Male', 'jacksonmartin275@gmail.com', 789067456);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T008', 'Lily', 'Chen', 'Female', 'lilychen634@gmail.com', 786745987);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T009', 'Oliver', 'Kim', 'Male', 'oliverkim037@gmail.com', 723735927);

INSERT INTO Teacher (TeacherID, TeacherFirstName, TeacherLastName, Gender, TeacherEmailAddress, TeacherPhoneNumber)

VALUES ('T010', 'Caleb', 'Adams', 'Male', 'calebadams354@gmail.com', 756478252);

COMMIT;

-- List of Female Teachers:

SELECT \* FROM Teacher WHERE Gender = 'Female';

-- List of Parent Guardians:

SELECT s.StudentID, g.GuardianID, g.GuardianFirstName, g.GuardianLastName FROM Student\_Guardian s JOIN Guardian g ON s.GuardianID = g.GuardianID WHERE s.GuardianType = 'Parent';