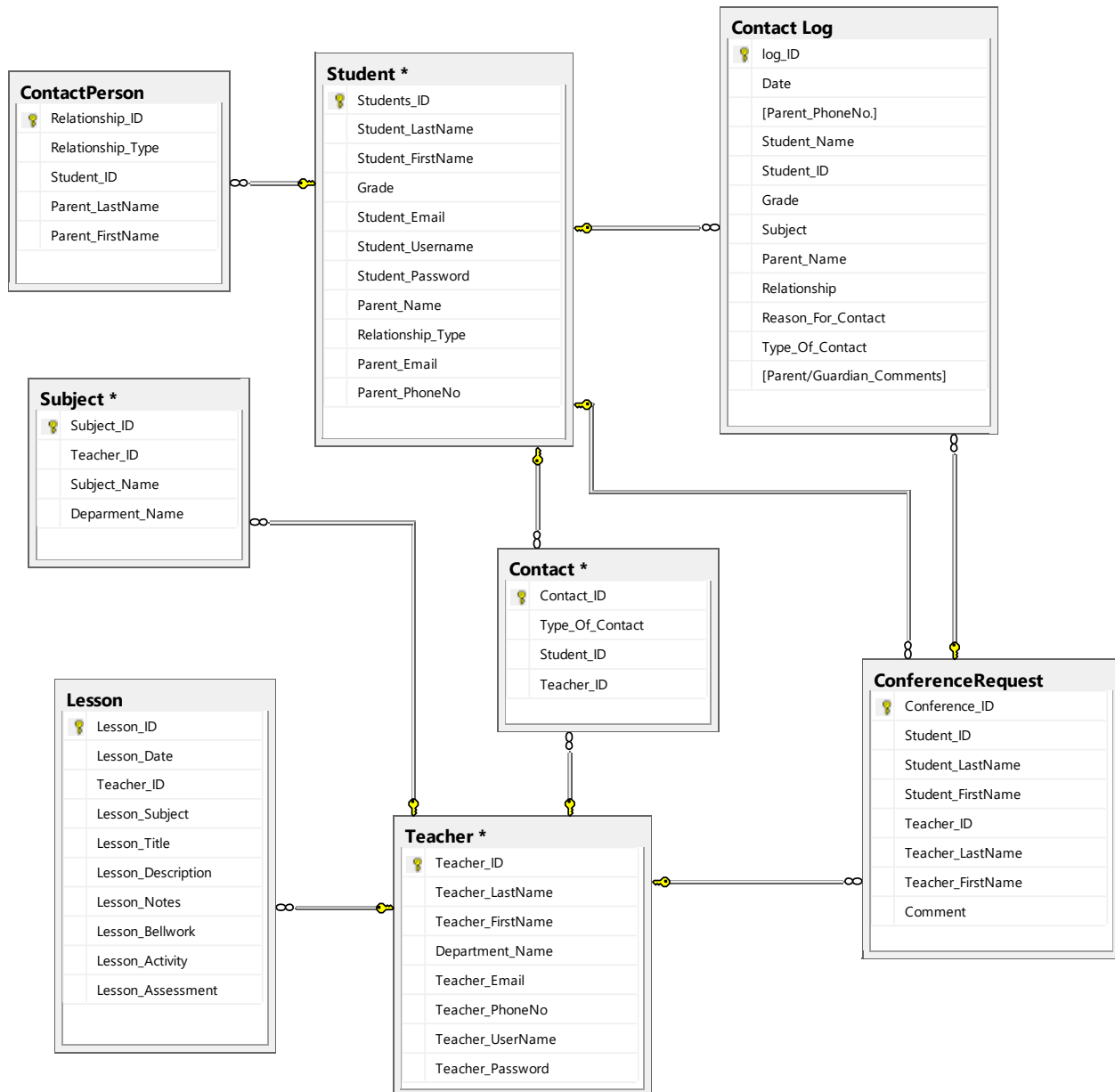## Database

In this project I intend to use Microsoft SQL Server to create and maintain the database for The Educator Box web application. The reasons why I am going to use Microsoft SQL Server include the following:

- The data collected and maintained in the web application will be secure.
- It is easy to install and configure Microsoft SQL Server.
- With Microsoft SQL Server data can be easily managed on different devices without having to make another storage.
- Microsoft SQL Server has features that can be used to recover and restore data incase of disruptions that causes the server to shut down.
- The cost of storing and managing data on Microsoft SQL Server is lower.

Database Diagram

ContactPerson
- 🔑 Relationship_ID
- Relationship_Type
- Student_ID
- Parent_LastName
- Parent_FirstName

Student *
- 🔑 Students_ID
- Student_LastName
- Student_FirstName
- Grade
- Student_Email
- Student_Username
- Student_Password
- Parent_Name
- Relationship_Type
- Parent_Email
- Parent_PhoneNo

Contact Log
- 🔑 log_ID
- Date
- [Parent_PhoneNo.]
- Student_Name
- Student_ID
- Grade
- Subject
- Parent_Name
- Relationship
- Reason_For_Contact
- Type_Of_Contact
- [Parent/Guardian_Comments]

Subject *
- 🔑 Subject_ID
- Teacher_ID
- Subject_Name
- Deparment_Name

Contact *
- 🔑 Contact_ID
- Type_Of_Contact
- Student_ID
- Teacher_ID

Lesson
- 🔑 Lesson_ID
- Lesson_Date
- Teacher_ID
- Lesson_Subject
- Lesson_Title
- Lesson_Description
- Lesson_Notes
- Lesson_Bellwork
- Lesson_Activity
- Lesson_Assessment

Teacher *
- 🔑 Teacher_ID
- Teacher_LastName
- Teacher_FirstName
- Department_Name
- Teacher_Email
- Teacher_PhoneNo
- Teacher_UserName
- Teacher_Password

ConferenceRequest
- 🔑 Conference_ID
- Student_ID
- Student_LastName
- Student_FirstName
- Teacher_ID
- Teacher_LastName
- Teacher_FirstName
- Comment

Tables

Contact Person Table

The contact person table will have the details of the person who is listed as the parent or guardian of the student. This table will be linked to the student table.

Student Table

This table will contain the details of the students in the teacher's class or who are taking the teacher's courses. This table will be linked to contact person table, contact log table and contact table.

Contact Log Table

This table will contain the details of the contacts that the teacher makes with the parents or guardians. The table will be linked to contact table, student table and teacher table.

Subject Table

This table will contain the details off the classes being taught by the teacher, the table will show the departments in which the subject belongs. This table will be linked to the teacher table and the lesson table.

Contact Table

The table will give the details of types of contacts that are made by the teacher for example phone calls, text, emails, or face to face meeting. The table will be linked to the teacher table and student table.

Lesson Table

This table will contain the links to the materials that the teacher uses for his lesson in every class. The materials will be comprised of notes, bellwork, class activities and assessments. This table will be linked to the teacher table and the subject table.

Teacher Table

This table will contain the details particulars of the teacher and it is going to be linked to lesson table, contact table and subject table.

Conference Request Table

This is the table that will contain the details of conference requests made by the parent. The table will be linked to contact log table, teacher table and student table.