**Self Join**

**تعامل معاملة ال join**

**Graphical user interface, application

Description automatically generated**SELECT column\_name(s)  
FROM table1 T1, table1 T2  
WHERE condition;

**ثثثث**

**Indexing database**

**اختصار عامل زي الفهرس في نهاية أي كتاب هو ليس تفاصيل الكتاب ..**

**Indexing refers to a data structure technique that is used for quickly retrieving entries from database files using some attributes that have been indexed. In database systems, indexing is comparable to indexing in books. The indexing attributes are used to define the indexing..**

**Primary key and unique**

**ال primary key**

**هي زي ال unique يقبل قيم فريده من نوعها ولكن لا تقبل قيمة ال null**

**ال primary key واحد بس مقبول فيه في كل table**

**ولكن ال unique عادي ممكن نبقي في كل عمود كذا مره**

**Graphical user interface, text, application

Description automatically generated**

**Stored Procedural**

**a prepared SQL code that you can save, so the code can be reused over and over again**

**So if you have an SQL query that you write over and over again, save it as a stored procedure, and then just call it to execute it**

**هي تجهيز الكود و حفظة و يمكن اعاده استخدامه بالاسم لانت حفظته بيه** EXEC

CREATE PROCEDURE SelectAllCustomers  
AS  
SELECT \* FROM Customers  
GO;

EXEC SelectAllCustomers;

**Triggers**

يسمى حدث (Event) و هو عبارة عن أمر يتنفذ بشكل تلقائي في حال تم تنفيذ أمر معين.

**Text, application

Description automatically generated**

**الفرق بين ال charset and collation**

**A character** set is a set of characters while a collation is the rules for comparing and sorting a particular character set.

**Collation** is about comparison between characters. It defines a set of rules to compare characters of a character set.