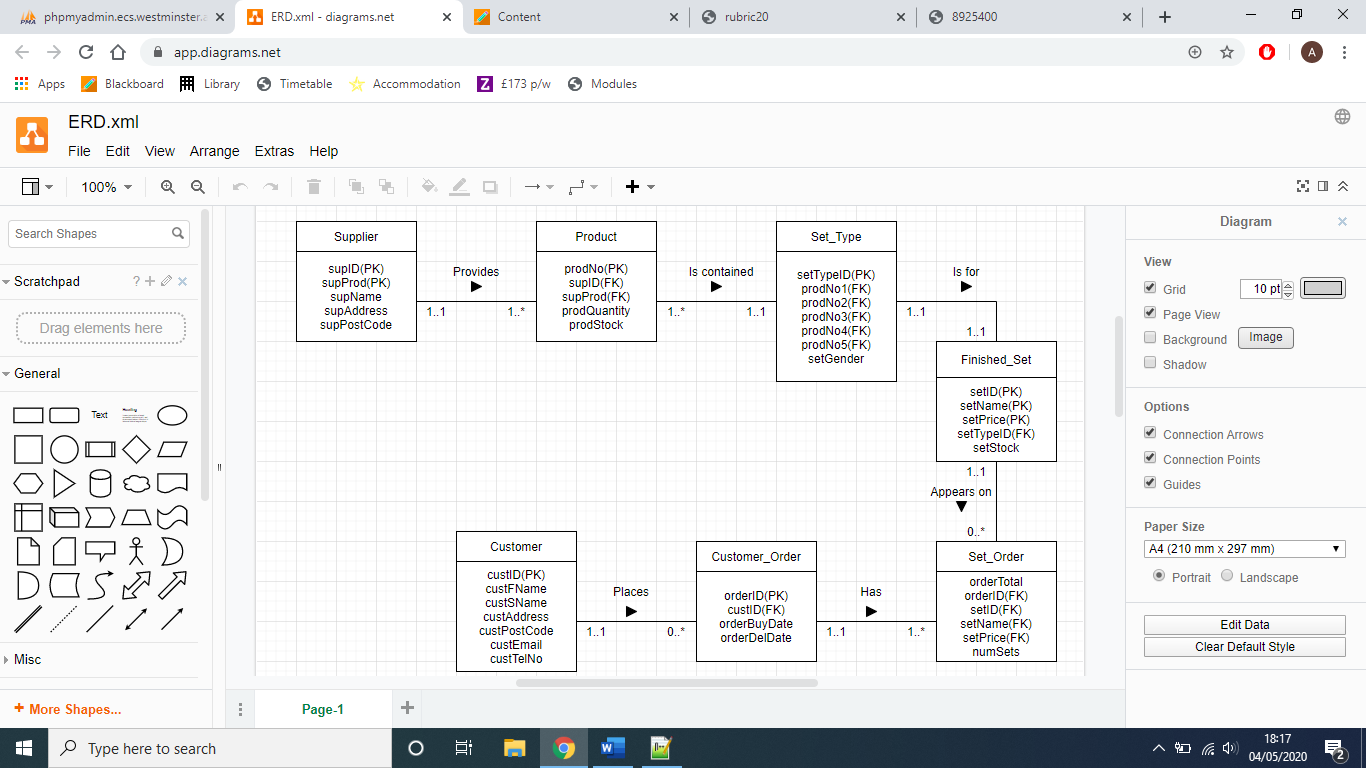
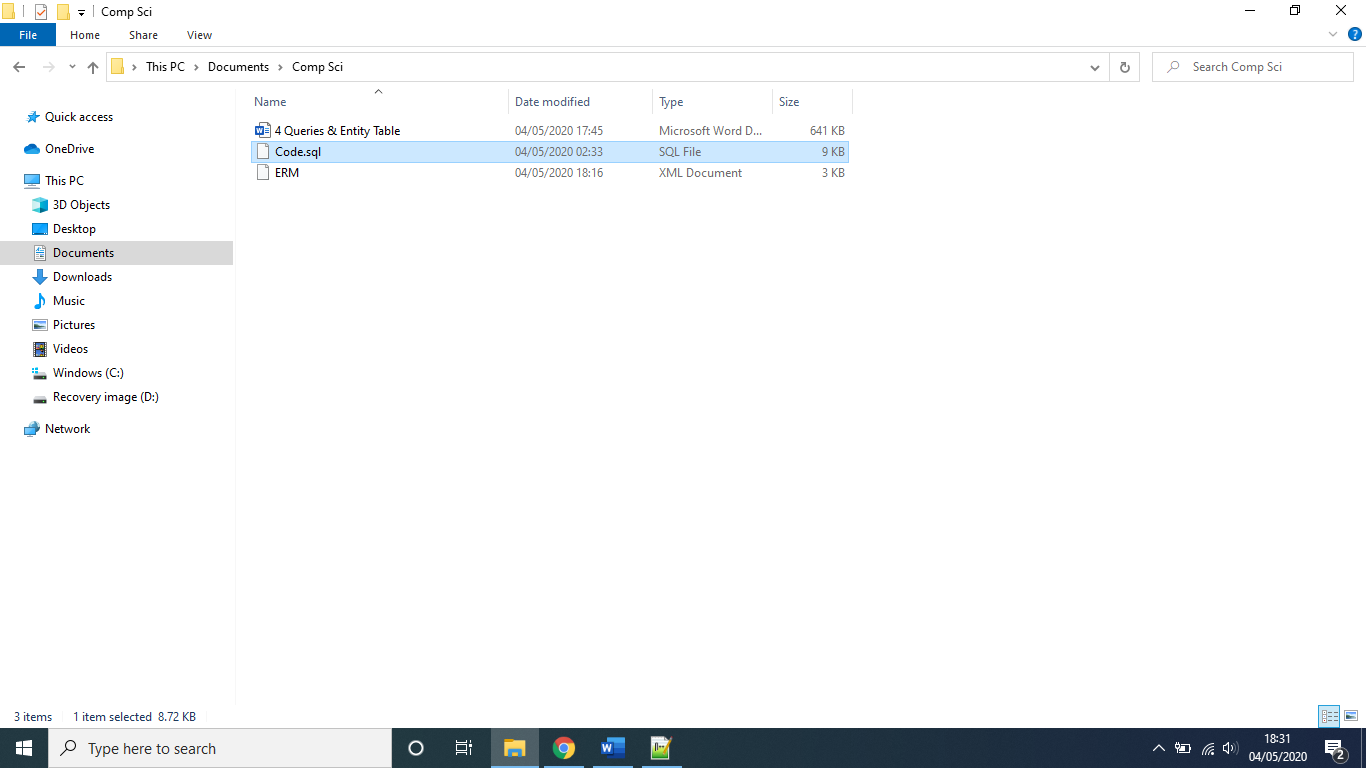
**ERM:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Entity** | **Primary Key (PK)** | **Foreign Key (FK)** | **Rationale for PK** |
| Supplier | supID, supProd |  | The supID and supProd will be referenced in the Product table to give the Product a Supplier parent. |
| Product | prodNo | supID, supProd | The prodNo is used to uniquely identify each product and is referenced in the Set\_Type table. |
| Set\_Type | setTypeID | prodNo1, prodNo2, prodNo3, prodNo4, prodNo5, | The setTypeID allows for all of the information about the make up of the set to be referenced by a single piece of data the setTypeID. |
| Finished\_Set | setID, setName, setPrice | setTypeID | In this table I give the Finished set the most important aspects the setName and setPrice I am able to reference this in other tables with the use of an ID. However I will also need the setPrice to do calculations in the Set\_Order table. setName is also a PK as an ID and a name makes the data more readable instead of just a number. |
| Set\_Order | … | orderID, setID, setName, setPrice | … |
| Customer\_Order | orderID | custID | The orderID is used to find information on the custID, orderBuyDate, and orderDelDate essentially the custID is used to link tables. |
| Customer | custID |  | The custID is used for referring to the different customers through the use of a unique number. |

The sql script I created in Notepad ++. I’ve include the file as Code.sql, The file has been made so you can copy and paste straight into the SQL tab on phpMyAdmin.

I originally created the ERM on <https://app.diagrams.net/> and have included this file also, as well as the screenshot in this document.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Query No** | **Purpose** | **Tables involved** | **SQL** | **Correct Execution** |
| 1 | Show all of the deliveries that will be between the first 5 days of the month | 1 table -Customer\_Order | SELECT \*  FROM Customer\_Order  WHERE orderDelDate BETWEEN '2019-06-02' AND '2019-06-04' | Yes |
| 2 | Order all of the suppliers by name and postcode. | 1 table - Supplier | SELECT \* FROM Supplier  ORDER BY supName, supAddress; | Yes |
| 3 | This shows how many orders have been made in total. | 1 table – Set\_Order | SELECT COUNT(orderID)  FROM Set\_Order; | Yes |
| 4 | Find the average level of stock for all sets. | 1 table – Finished\_Set | SELECT AVG(setStock)  FROM Finished\_Set; | Yes |