Student: Valery Taustsiakou Student Number: G00296946 Project: **Dental Practise, Database Design & Development**

View of appointment time and patient name:

Discussion:

* The DOB entered in falsely as 00:00:00 because the DOB must be entered as 07/10/1993 in this format. Needs to be entered 1993/10/07 in this format.
* The constraint for the deletion query blocked the update of the parent table.
* Left join to check that the treatment ID input matched the cost of the treatment.
* I have autoincremented the ID numbers for the appointments table which has replaced the AP1001 ID varchars with an Int(11) datatype. This was to experiment with the database to improve it.
* Reference to 3NF.
* Option to further index the tables for further access. Primary keys and foreign keys also work as an index knowing that some tables do not need a foreign key for simplicity and redundancy.
* There is option to add trigger for the late cancellation fee and to link this to the total bill due in the payments table to increment the total by €10.00.

Reference:

The database complies with the information rule by finding the number of patients who have not paid their dental bill. The primary key was bill\_id and available to trace their patient records name.

The database also follows the guaranteed access rule because unique values can be ontained using the table name, primary key and column name combination (SELECT \* FROM `PAYMENT` WHERE `BILL\_PAID\_AMOUNT`=0.00 AND BILL\_ID = 4).