

## **Database Design and Development Report**

The database 'DentalSurgery' consists of seven tables and two views.

The appointment table has a primary key id and two foreign keys, i.e. patientId and dentistId. The table contains columns such as date, time, reason, duration and status.

The table bill has one primary key id and one foreign key i.e. appointmentId. It also has a column for the date and the amount of the bill.

The table dentist has one primary key id and consists of columns relating to the dentist's contact details, i.e. name, surname, email, phone and address.

The table patient has one primary key id. The rest of the columns are made of of the patient's information, such as name, surname, address, email and phone.

The payment table has a primary key and one foreign key i.e. billId, which relates to the primary key in the bill table. It also consists of columns such as date (date of payment), method, amount, and receiptNumber.

The table price has one primary key id. It also has two more columns, one for the fee and the other for the type i.e. either cancellation fee or treatment fee.

The specialisation table has two foreign keys, dentistId and specialisation.

The view appointmentDiary consists of the appointmentId, time , status, duration, reason , patient email, phone and name and the date. It is designed to give a quick view of the previous and upcoming appointments to the practices secretary.

The view billPayments consists of the billId, patient name, appointment date, patient email, payment receipt , billDate, reason, billAmount, paymentAmount and totalPayments.

This view is designed to give the practice's secretary a quick view of the bills that have been paid in full or partially paid and by whom with the context of the relevant appointments.