Instituto Superior Técnico

Master's Degree in Biomedical Engineering Information Systems and Databases

ASSIGNMENT 2 DATABASE MODELING

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1 Create the Database

The first step in the SQL script that creates the database is to drop all the previous tables that interfere with the ones being created. This step must be done carefully, since a lot of the tables possess FOREIGN KEYs relating to other tables, therefore, the tables must be dropped in a reverse order from their creation, *i.e.*, the last table to be created is the first to be dropped.

```
DROP TABLE IF EXISTS procedure_charting;
DROP TABLE IF EXISTS teeth
DROP TABLE IF EXISTS procedure_in_radiology;
DROP TABLE IF EXISTS procedure_in_consultation;
DROP TABLE IF EXISTS procedure_;
DROP TABLE IF EXISTS prescription;
DROP TABLE IF EXISTS medication;
DROP TABLE IF EXISTS consultation_diagnostic;
DROP TABLE IF EXISTS diagnostic code relation;
DROP TABLE IF EXISTS diagnostic_code;
DROP TABLE IF EXISTS consultation assistant;
DROP TABLE IF EXISTS consultation;
DROP TABLE IF EXISTS appointment;
DROP TABLE IF EXISTS supervision_report;
DROP TABLE IF EXISTS trainee_doctor;
DROP TABLE IF EXISTS permanent_doctor;
DROP TABLE IF EXISTS phone_number_client;
DROP TABLE IF EXISTS client;
DROP TABLE IF EXISTS nurse;
DROP TABLE IF EXISTS doctor;
DROP TABLE IF EXISTS receptionist;
DROP TABLE IF EXISTS phone_number_employee;
DROP TABLE IF EXISTS employee;
```

1.1 employee

```
CREATE TABLE employee

(

VAT CHAR(10),

name VARCHAR(64) NOT NULL,

birth_date DATE NOT NULL,

street VARCHAR(32) NOT NULL,

city VARCHAR(32) NOT NULL,

zip CHAR(8) NOT NULL,

BAN CHAR(25) NOT NULL,

salary NUMERIC(8, 2) NOT NULL,

PRIMARY KEY(VAT),
```

```
12 UNIQUE(IBAN),
13 CHECK(salary>=0)
14 );
```

Every VAT has a fixed size of 10 digits, therefore, they are stored as a string with fixed size, CHAR, and correspond to the PRIMARY KEY, which means they are UNIQUE and NOT NULL. The IBAN has a fixed size of 25, therefore, CHAR(25), and it is also NOT NULL and UNIQUE, since the IBAN is specific to each person. The salary is a NUMERIC value with 8 digits total and 2 digits to the right of the decimal point, this means that an employee as a maximum salary of 999.999,99€, and since it must be positive, the CHECK statement is included.

1.2 phone_number_employee

Each phone number is UNIQUE, therefore, it is used as the PRIMARY KEY of this table. Each row will relate to one employee, presented as a FOREIGN KEY which REFERENCES the employee table. ON DELETE of a row on the employee table, every phone number corresponding to that employee should be deleted. ON UPDATE of a employee's VAT, that value is also updated in the phone_number_employee table.

1.3 receptionist

```
CREATE TABLE receptionist

CREATE TABLE receptionist

VAT CHAR(10) NOT NULL,

FOREIGN KEY(VAT) REFERENCES employee(VAT) ON DELETE CASCADE ON UPDATE CASCADE,

UNIQUE(VAT)

'5 UNIQUE(VAT)
```

This table contains all the employees that specialize as receptionist, therefore, the VAT should be UNIQUE, since every there is not two receptionists with the same VAT. Then the only column of this table is the VAT of these employees. Like previously, the ON DELETE and ON UPDATE should CASCADE.

1.4 doctor

```
CREATE TABLE doctor

(

VAT CHAR(10) NOT NULL,

specialization VARCHAR(32) NOT NULL,

biography VARCHAR(512) NOT NULL,

email VARCHAR(64) NOT NULL,

FOREIGN KEY(VAT) REFERENCES employee(VAT) ON DELETE CASCADE ON

UPDATE CASCADE,

UNIQUE(VAT),

UNIQUE(email)

);
```

This is also a specialization of the employees, so the column VAT is a FOREIGN KEY that REFERENCES the VAT column on the employees table. The VAT is UNIQUE since this is a specialization.

Other columns are stored in this table and the email is considered to be UNIQUE to each row.

1.5 nurse

```
CREATE TABLE nurse

CREATE TABLE nurse

VAT CHAR(10) NOT NULL,

FOREIGN KEY(VAT) REFERENCES employee(VAT) ON DELETE CASCADE ON UPDATE CASCADE,

UNIQUE(VAT)

VAT CHAR(10) NOT NULL,

UNIQUE(VAT) ON DELETE CASCADE ON UPDATE CASCADE,

VAT CHAR(10) NOT NULL,

VAT CHAR(10) NOT NULL,
```

This table is similar to the receptionist one.

1.6 client

```
CREATE TABLE client

CREATE TABLE client

VAT CHAR(10),

name VARCHAR(64) NOT NULL,

birth_date DATE NOT NULL,

street VARCHAR(32) NOT NULL,

city VARCHAR(32) NOT NULL,

gender VARCHAR(6) NOT NULL,
```

```
age INTEGER(3) NOT NULL,
PRIMARY KEY(VAT),
CHECK(age BETWEEN O AND 150)
3);
```

This table is similar to the employee one, but some columns differ. In this one the gender and age are stored, but the IBAN and salary are not. The age is an INTEGER(3) and the CHECK statement assures that it must range from 0 to 150.

1.7 phone_number_client

```
CREATE TABLE phone_number_client

(

VAT CHAR(10) NOT NULL,

phone CHAR(9),

PRIMARY KEY(phone),

FOREIGN KEY(VAT) REFERENCES client(VAT) ON DELETE CASCADE ON UPDATE CASCADE

7 );
```

This table is equivalent to the phone_number_employee, but it REFERENCES the client table.

1.8 permanent_doctor

```
CREATE TABLE permanent_doctor

(

VAT CHAR(10) NOT NULL,

years INTEGER(3) NOT NULL,

FOREIGN KEY(VAT) REFERENCES doctor(VAT) ON DELETE CASCADE ON UPDATE CASCADE,

UNIQUE(VAT),

CHECK(years BETWEEN O AND 100)

);
```

This is a specialization of doctor. Beside the VAT column that REFERENCES the doctor table, it has a column which stores the number of years of practice, which is an INTEGER between 0 and 100.

1.9 trainee_doctor

```
CREATE TABLE trainee_doctor

(

VAT CHAR(10) NOT NULL,

supervisor CHAR(10) NOT NULL,

FOREIGN KEY(VAT) REFERENCES doctor(VAT) ON DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(supervisor) REFERENCES permanent_doctor(VAT) ON DELETE CASCADE ON UPDATE CASCADE,

UNIQUE(VAT)

);
```

It is a specialization of doctor. It also REFERENCES a row in the permanent_doctor table which corresponds to the supervisor of the trainee doctor.

1.10 supervision_report

```
CREATE TABLE supervision_report

(

VAT CHAR(10) NOT NULL,

date_timestamp DATETIME NOT NULL,

escription VARCHAR(512) NOT NULL,

evaluation INTEGER(1) NOT NULL,

PRIMARY KEY(date_timestamp),

FOREIGN KEY(VAT) REFERENCES trainee_doctor(VAT) ON DELETE CASCADE

ON UPDATE CASCADE,

CHECK(evaluation BETWEEN 1 AND 5)

);
```

Every report has as PRIMARY KEY a DATETIME value, which corresponds to a string that contains a date and time. The DATETIME type was chosen over TIMESTAMP since the database does not lead with different time zones. Also, every report REFERENCES a trainee doctor and it is assured that the evaluation score is contained BETWEEN 1 AND 5.

1.11 appointment

```
CREATE TABLE appointment

VAT_doctor CHAR(10),

date_timestamp DATETIME,

description VARCHAR(255) NOT NULL,

VAT_client CHAR(10) NOT NULL,

PRIMARY KEY(VAT_doctor, date_timestamp),

FOREIGN KEY(VAT_doctor) REFERENCES doctor(VAT) ON DELETE CASCADE

ON UPDATE CASCADE,
```

```
FOREIGN KEY(VAT_client) REFERENCES client(VAT) ON DELETE CASCADE
ON UPDATE CASCADE

10 );
```

The PRIMARY KEY in this table will be the pair VAT_doctor and date_timestamp, since there cannot be two appointments with the same doctor at the same time.

1.12 consultation

```
CREATE TABLE consultation

(

VAT_doctor CHAR(10),

date_timestamp DATETIME NOT NULL,

SOAP_S VARCHAR(512),

SOAP_O VARCHAR(512),

SOAP_A VARCHAR(512),

SOAP_P VARCHAR(512),

FOREIGN KEY(VAT_doctor, date_timestamp) REFERENCES appointment(
    VAT_doctor, date_timestamp) ON DELETE CASCADE ON UPDATE
    CASCADE,

UNIQUE(VAT_doctor, date_timestamp)

11 );
```

Each consultation REFERENCES only one appointment, therefore, the pair VAT_doctor and date_timestamp of each consultation is UNIQUE, since it is a PRIMARY KEY in the table this pair REFERENCES.

1.13 consultation_assistant

Again, since the same nurse cannot assist in two appointments at the same time, the group VAT_doctor, date_timestamp, VAT_nurse is UNIQUE.

1.14 diagnostic_code

```
1    CREATE TABLE diagnostic_code
2  (
3         ID VARCHAR(7),
4         description VARCHAR(255) NOT NULL,
5         PRIMARY KEY(ID)
6 );
```

1.15 diagnostic_code_relation

```
CREATE TABLE diagnostic_code_relation

[ID1 VARCHAR(7) NOT NULL,

ID2 VARCHAR(7) NOT NULL,

type VARCHAR(64) NOT NULL,

FOREIGN KEY(ID1) REFERENCES diagnostic_code(ID) ON DELETE CASCADE

ON UPDATE CASCADE,

FOREIGN KEY(ID2) REFERENCES diagnostic_code(ID) ON DELETE CASCADE

ON UPDATE CASCADE

ON UPDATE CASCADE

8 );
```

This table reflects the relation between two diagnostic codes, therefore, each ID will be a FOREIGN KEY that REFERENCES the diagnostic_code table.

One could assume that the relation between two diagnostic codes is UNIQUE, but it was assumed that two diagnostic codes can have more than one relation between them.

1.16 consultation_diagnostic

```
CREATE TABLE consultation_diagnostic

(

VAT_doctor CHAR(10),

date_timestamp DATETIME NOT NULL,

ID VARCHAR(7) NOT NULL,

FOREIGN KEY(VAT_doctor, date_timestamp) REFERENCES consultation(
    VAT_doctor, date_timestamp) ON DELETE CASCADE ON UPDATE
    CASCADE,

FOREIGN KEY(ID) REFERENCES diagnostic_code(ID) ON DELETE CASCADE
    ON UPDATE CASCADE,

UNIQUE(VAT_doctor, date_timestamp, ID)

);
```

In each consultation there can be more than one diagnostic code, therefore, the ID parameter is not UNIQUE, but the same ID cannot appear twice in the same consultation, therefore, the group VAT_doctor, date_timestamp, ID is UNIQUE.

1.17 medication

```
CREATE TABLE medication

(
name VARCHAR(64),
lab VARCHAR(64),
PRIMARY KEY(name, lab)
);
```

1.18 prescription

```
CREATE TABLE prescription
      name VARCHAR (64) NOT NULL,
       lab VARCHAR (64) NOT NULL,
       VAT_doctor CHAR(10),
       date_timestamp DATETIME NOT NULL,
       ID VARCHAR (7) NOT NULL,
       dosage VARCHAR (32) NOT NULL,
       description VARCHAR (64) NOT NULL,
      FOREIGN KEY(name, lab) REFERENCES medication(name, lab) ON DELETE
           CASCADE ON UPDATE CASCADE,
      FOREIGN KEY(VAT_doctor, date_timestamp, ID) REFERENCES
          consultation_diagnostic(VAT_doctor, date_timestamp, ID) ON
          DELETE CASCADE ON UPDATE CASCADE,
      UNIQUE(name, lab, VAT_doctor, date_timestamp, ID)
12
  );
```

The prescription table REFERENCES a diagnostic of a consultation and also a medication. It includes the dosage and the description of that medication intake. Each medication can only be prescribed once per consultation diagnostic, therefore, the group name, lab, VAT_doctor, date_timestamp, ID is UNIQUE.

1.19 procedure

```
1 CREATE TABLE procedure_
2 (
```

```
name VARCHAR(64),
type VARCHAR(64) NOT NULL,
PRIMARY KEY(name)
);
```

The name for this table is procedure_ since CREATE PROCEDURE conflicts with the SQL syntax.

1.20 procedure_in_consultation

```
CREATE TABLE procedure_in_consultation

(

name VARCHAR(64) NOT NULL,

VAT_doctor CHAR(10),

date_timestamp DATETIME NOT NULL,

description VARCHAR(255) NOT NULL,

FOREIGN KEY(name) REFERENCES procedure_(name) ON DELETE CASCADE

ON UPDATE CASCADE,

FOREIGN KEY(VAT_doctor, date_timestamp) REFERENCES consultation(
 VAT_doctor, date_timestamp) ON DELETE CASCADE ON UPDATE
 CASCADE,

UNIQUE(name, VAT_doctor, date_timestamp)

in );
```

In each consultation the same procedure can be performed only one, therefore, the group name VAT_doctor and date_timestamp should be UNIQUE.

1.21 procedure_in_radiology

```
CREATE TABLE procedure_in_radiology

(

name VARCHAR(64) NOT NULL,

file VARCHAR(255),

VAT_doctor CHAR(10),

date_timestamp DATETIME NOT NULL,

PRIMARY KEY(file),

FOREIGN KEY(name) REFERENCES procedure_in_consultation(name) ON

DELETE CASCADE ON UPDATE CASCADE,

FOREIGN KEY(VAT_doctor, date_timestamp) REFERENCES

procedure_in_consultation(VAT_doctor, date_timestamp) ON

DELETE CASCADE ON UPDATE CASCADE,

UNIQUE(name, VAT_doctor, date_timestamp)

UNIQUE(name, VAT_doctor, date_timestamp)
```

Since in each row in the procedure_in_radiology table corresponds to only one procedure in consultation, like previously, each group name VAT_doctor and date_timestamp should be UNIQUE.

1.22 teeth

```
CREATE TABLE teeth
quadrant VARCHAR(11),
number INTEGER(1),
name VARCHAR(32) NOT NULL,
PRIMARY KEY(quadrant, number),
CHECK(number BETWEEN 1 AND 8)
);
```

According to the Palmer Notation Numbering System, the maximum number of teeth per quadrant is 8, therefore, an INTEGER(1) is used and it is assured that it ranges between 1 and 8.

1.23 procedure_charting

```
CREATE TABLE procedure_charting
2
      name VARCHAR (64) NOT NULL,
3
       VAT CHAR (10),
4
       date_timestamp DATETIME NOT NULL,
       quadrant VARCHAR (11) NOT NULL,
       number INTEGER (1) NOT NULL,
       description VARCHAR (255) NOT NULL,
       measure NUMERIC (3,1) NOT NULL,
       FOREIGN KEY(name) REFERENCES procedure_in_consultation(name) ON
          DELETE CASCADE ON UPDATE CASCADE,
       FOREIGN KEY(VAT, date_timestamp) REFERENCES
11
          procedure_in_consultation(VAT_doctor, date_timestamp) ON
          DELETE CASCADE ON UPDATE CASCADE,
       FOREIGN KEY(quadrant, number) REFERENCES teeth(quadrant, number)
12
          ON DELETE CASCADE ON UPDATE CASCADE,
       UNIQUE(name, VAT, date_timestamp, quadrant, number),
       CHECK (measure >=0)
14
15
  );
```

The measure value is a NUMERIC VALUE of 3 digits total and 1 digit to the right of the decimal point. It is assured that it is positive, therefore, it ranges between 0.0 and 99,9.

Every tooth is measured only once per charting procedure, therefore, the combination name, VAT (VAT_doctor), date_timestamp, quadrant and number must be UNIQUE.

2 Populate the Database

Our database was populated having in mind the capability to assess the well-functioning of all the queries and updates used throughout this project. Having said that, the database was populated as following:

- 101 Clients
- 30 Employees:
 - 10 Doctors:
 - * 5 Permanent doctors
 - * 5 Trainee doctors
 - 5 Receptionists
 - 5 Nurses
- 1 unique phone number for each client and employee.
- 5 supervision reports, one for each trainee doctor.
- 353 scheduled appointments.
- 300 performed consultations.
- For each consultation either 1 or 2 nurses where assigned.
- 10 diagnostic codes.
- 2 relations were established between diagnostic codes.
- For each consultation 1 diagnostic code was assigned.
- 6 medications.
- To 9 diagnostic codes, a prescription was made. Each prescription has a 1 medication associated. Different diagnostic codes can be treated with the same medication. Also, some medications are used to treated the same conditions.
- 6 types of procedures were created:

- Tooth extractions:
 - * Extraction of impacted tooth
 - * Extraction of extra teeth
- Application of dental restoratives:
 - * Treating enamel erosion
 - * Treating bacterial infection
- Radiography exams:
 - * Maxillary molar periapical radiography
 - * Mandible X-ray
 - * Wisdom tooth X-ray
- Dental Charting:
 - * Periodontal charting
- Root canal treatments:
 - * Dental filling
 - * Treatment of cavities
- Orthodontics:
 - * Dental braces
- For each consultation 1 procedure was assigned.
- 62 of the performed procedures where of the type Radiography exams.
- 32 of the performed procedures where of the type *Dental Charting*.

3 SQL Queries

The SQL queries developed to solve the given information needs is presented and explained below.

3.1 Query 1

```
AND client.VAT = appointment.VAT_client
AND phone_number_client.VAT = client.VAT;
ORDER BY client.name ASC;
```

In this query, are listed the VAT, name and phone number of all clients that had consultations with the doctor named *Jane Sweettooth*.

First, it is assured that the appointment became a consultation by equaling their timestamp. This means the patient showed up. Then, the name of the employee of that consultation is specified, *Jane Sweettooth*, the VAT of the employee of the consultation is the VAT of the doctor of the appointment, the VAT of the client is equal to both the VAT of the client of the appointment and the VAT associated with the client's phone number.

3.2 Query 2

```
SELECT etd.name AS "Trainee Dr Name", td.VAT AS "Trainee Dr VAT", epd
.name AS "Permanent Dr Name", supervision_report.evaluation AS "
Evaluation Score", supervision_report.description AS "Report
Description"

FROM (employee etd INNER JOIN trainee_doctor td ON etd.VAT = td.VAT)

,
    (employee epd INNER JOIN permanent_doctor pd ON epd.VAT = pd.VAT)

,
    supervision_report

WHERE (supervision_report.evaluation < 3 OR LOWER(supervision_report.description) LIKE '%insufficient%')

AND td.VAT= supervision_report.VAT
AND td.supervisor = pd.VAT

ORDER BY supervision_report.evaluation DESC;
```

In this query, it is listed the name and the VAT of the trainee doctor, the name of the permanent doctor, the evaluation and description of all reports that scored less than 3 or were *insufficient*.

To achieve this, a INNER JOIN between the employee table and trainee_doctor, and the employee table and the permanent_doctor one, were applied. These employee tables were associated with their respective entities (trainee doctor and permanent doctor) through their VAT.

This allows to match each trainee doctor and each permanent doctor with its corresponding employee row.

Then, the conditions that these reports had to respect were specified: score lower than 3 or having the term *insufficient*. The trainee doctor's VAT associated with the report is matched with the td table and returns the trainee doctor. The attribute supervisor of the trainee doctor is matched with the pd table and returns the permanent doctor.

3.3 Query 3

In this query, it is listed the name, city and VAT of the clients who had the Objective part of their SOAP notes containing the words *gingivitis* or *periodontitis* in their most recent consultation.

To select the most recent consultation, a INNER JOIN was applied between the appointment table and consultation one ON the timestamp and VAT_doctor. Then, the results were grouped by appointment.VAT_client, and the MAX command was used in the appointment.date_timestamp column to select the biggest timestamp which corresponds to the last entry. This value, the client and the objective part of the SOAP were displayed in a temporary table treated AS con.

Then the rows in which the SOAP₋O value contains one of the terms are matched with the client by their VAT. o the client VAT.

3.4 Query 4

In this query, its is listed the name, VAT, city, street and ZIP code of all clients that have had appointments but never had a consultation.

To achieve this, it is assured that the client's VAT is not present in the appointments that turn into consultations. This is accomplished by creating a temporary table in which it is selected the client's VAT of all clients that associated with appointments that turn into consultations and select the clients' VAT that are NOT IN this temporary table.

3.5 Query 5

In this query, it is list the diagnostic code ID, description and number of different medications used to treat a condition.

First, a INNER JOIN is applied between the prescription table and the medication one, in order to get the corresponding medication information of each prescription. Then a LEFT JOIN is applied between the diagnostic_code table and the INNER JOIN result, in order to correspond each diagnostic code to the prescriptions associated to it. If there is not any prescription, the value presented is NULL.

Then the GROUP BY command is applied to group the rows by diagnostic_code.ID and the COUNT is used to count the number of DISTINCT medication.name in each group. The results are ordered in ascending order by the this value.

3.6 Query 6

```
SELECT Age AS "0: <=18 | 1: >18", AVG(temp.count_nurses) AS "Average Nurses", AVG(temp.count_procedures) AS "Average Procedures", AVG(temp.count_diagnostics) AS "Average Diagnostics", AVG(temp.count_prescriptions) AS "Average Prescriptions"

FROM

(SELECT client.age>18 AS Age, COUNT(DISTINCT consultation_assistant.VAT_nurse) AS count_nurses, COUNT(DISTINCT procedure_in_consultation.name) AS count_procedures, COUNT(DISTINCT consultation_diagnostic.ID) AS
```

```
count_diagnostics, COUNT(DISTINCT prescription.name,
          prescription.lab) AS count_prescriptions
      FROM client
           INNER JOIN appointment
5
           ON (client.VAT = appointment.VAT_client)
           INNER JOIN consultation
           ON (appointment.VAT_doctor = consultation.VAT_doctor
               AND appointment.date_timestamp = consultation.
                  date_timestamp)
           LEFT JOIN consultation_assistant
           ON (consultation.VAT_doctor = consultation_assistant.
11
              VAT_doctor
               AND consultation.date_timestamp = consultation_assistant.
12
                  date_timestamp)
           LEFT JOIN procedure in consultation
13
           ON (consultation.VAT_doctor = procedure_in_consultation.
              VAT doctor
               AND consultation.date_timestamp =
                  procedure_in_consultation.date_timestamp)
           LEFT JOIN consultation diagnostic
           ON (consultation.VAT_doctor = consultation_diagnostic.
              VAT_doctor
               AND consultation.date_timestamp = consultation_diagnostic
                  .date_timestamp)
           LEFT JOIN prescription
19
           ON (consultation.VAT_doctor = prescription.VAT_doctor
               AND consultation.date_timestamp = prescription.
                  date_timestamp)
       WHERE YEAR(consultation.date_timestamp) = 2019
       GROUP BY consultation.VAT_doctor, consultation.date_timestamp) AS
23
  GROUP BY Age;
```

In this query, the clients of 2019 are divided into 2 age groups, less than or equal to 18 and greater than 18. For each group the average number of nurses, procedures, diagnostic codes and prescriptions involved in consultations is listed.

A INNER JOIN is applied between the appointment and consultation tables in order to match the information in each one of this tables. Then a LEFT JOIN is applied between this and the consultation_assistant, procedure_in_consultation, consultation_diagnostic, and prescription tables. This assures a correspondence between each consultation and the other tables if it exists; if not, the NULL value is presented. Only the rows corresponding to 2019 are selected. A GROUP BY consultation.VAT_doctor and consultation.date_timestamp is applied to these rows, which results in each row corresponding to one consultation and each one containing all the information regarding the nurses, procedures, diagnostic codes, and prescriptions involved. To count the number of each, a COUNT(DISTINCT [COLUMN]) was applied to: consultation_assistant.VAT_nurse, procedure_in_consultation.name, consulta-

tion_diagnostic.ID, and pair prescription.name and prescription.lab.

In order to divide the results of each consultation between the two groups, the client information corresponding to each consultation is matched and the SELECT statement contains: client.age; 18 AS Age. Therefore, for each consultation row, the value of this column is 0 if the consultation corresponds to a client with age less than or equal to 18, and 1 otherwise.

Then, this temporary table obtained is grouped by this Age, and the average of each column is calculated using AVG, resulting in the desired table.

3.7 Query 7

```
SELECT temp.ID AS "Diagnostic Code", temp.name "Most used medication"
FROM

(SELECT diagnostic_code.ID, medication.name
FROM diagnostic_code

LEFT JOIN (prescription
INNER JOIN medication
ON (prescription.name = medication.name
AND prescription.lab = medication.lab))
ON diagnostic_code.ID = prescription.ID
GROUP BY diagnostic_code.ID, medication.name
ORDER BY COUNT(medication.name) DESC) AS temp
GROUP BY temp.ID;
```

In this query, the name of the most common medication used to treat each diagnostic code is listed.

Similarly to the Query 5, a INNER JOIN is applied between prescription and medication, and LEFT JOIN is applied between diagnostic_code and the INNER JOIN result. Then, a GROUP BY is applied that groups rows with the same diagnostic_code.ID and medication.name. By applying COUNT(MEDICATION.NAME), the number of times each medication was prescribed for each diagnostic code is obtained. Therefore, by sorting by COUNT(MEDICATION.NAME) in a descending order the medications used more often will appear first. There might still be multiple medications associated to each diagnostic code, then, by applying a GROUP BY(TEMP.ID) only the first occurrence of each diagnostic_code.ID is displayed, which corresponds to the most common medication prescribed to it.

3.8 Query 8

```
SELECT DISTINCT prescription.name AS "Medication Name", prescription. lab AS "Lab"
```

```
FROM prescription, diagnostic_code

WHERE prescription.ID = diagnostic_code.ID

AND diagnostic_code.description LIKE '%dental cavities%'

AND diagnostic_code.description NOT LIKE '%infectious disease%'

AND YEAR(prescription.date_timestamp) = 2019

ORDER BY prescription.name;
```

In this query, it is listed the name and laboratory of medications that were used to treat *dental cavities* but not *infectious diseases* in 2019.

The tables prescription and diagnostic code were used to achieve this goal, since each prescription relates a medication and a diagnostic code. Then, only the rows that verify the conditions mentioned above were selected.

3.9 Query 9

```
SELECT DISTINCT client.name AS "Client Name", client.city AS "City", client.street AS "Street", client.zip AS "ZIP code"

FROM client

INNER JOIN appointment

ON appointment.VAT_client = client.VAT

WHERE YEAR(appointment.date_timestamp) = 2019

AND VAT_client IN (SELECT DISTINCT appointment.VAT_client

FROM appointment

INNER JOIN consultation

ON appointment.date_timestamp = consultation.date_timestamp

AND appointment.VAT_doctor = consultation.VAT_doctor);
```

This query is the opposite of the query 4. It is listed the name, city, street and zip of all clients that never missed an appointment (all appointments turned into consultations) in 2019.

Everything is the same for this query, except that it is assured that the YEAR of the appointment is 2019 and instead it is selected the clients which VAT is IN the temporary table containing the VAT of every client that did not miss a consultation.

4 Database Indexes Suggestions

4.1 Index 1

```
CREATE INDEX indexName ON employee(name);
```

Since this query goes through the employee table searching for the doctor named *Jane Sweettooth*, the table can be indexed by the attribute name, this way the query

can find immediately the VAT corresponding to a specific doctor, in this case, Jane Sweettooth.

4.2 Index 2

```
CREATE INDEX indexScore ON supervision_report(evaluation);
CREATE FULLTEXT INDEX ON supervision_report(description);
```

This query goes through the supervision_report table searching for reports with a evaluation score less than 3 or the term *insufficient* in its description. Therefore, in order to speed up the first search, an INDEX could be created on the evaluation column, making it much faster to access evaluation reports of a specific evaluation.

Then, a FULLTEXT INDEX could be created ON the description column. If one wants to apply this INDEX, the following statement of this query must be change from:

```
LOWER(supervision_report.description) LIKE '%insufficient%')
To:
CONTAINS(supervision_report.description, "insufficient")
```

5 Changes in the Database

5.1 Change 1

```
UPDATE employee
SET city = "Santiago do Cacem", street = "Rua de Mirobriga", zip = "
7540-109"
WHERE name = "Jane Sweettooth"
```

5.2 Change 2

```
UPDATE employee,

(SELECT VAT
FROM employee

INNER JOIN appointment

ON employee.VAT = appointment.VAT_doctor
WHERE YEAR(appointment.date_timestamp) = 2019
GROUP BY employee.VAT
HAVING COUNT(appointment.date_timestamp)>100) AS raise
SET salary = salary*1.05
WHERE employee.VAT = raise.VAT
```

A temporary table called raise is created in which are listed the VAT corresponding to employees that deserve a raise. The employee table is matched with the appointment one with an INNER JOIN, the year 2019 is selected, and a GROUP BY VAT is applied, this way, in each row we get a different VAT and, in it, all the appointments corresponding to it. By applying COUNT appointment.date_timestamp, the number of appointments is calculated and then assured that it is greater than 100 with the HAVING term.

5.3 Change 3

```
DELETE FROM diagnostic_code
  WHERE ID IN (
       SELECT consultation_diagnostic.ID
       FROM appointment
           INNER JOIN consultation
6
           ON appointment.date_timestamp = consultation.date_timestamp
               AND appointment.VAT_doctor = consultation.VAT_doctor
           INNER JOIN consultation_diagnostic
           ON consultation.date_timestamp = consultation_diagnostic.
              date_timestamp
               AND consultation.VAT_doctor = consultation_diagnostic.
                  VAT_doctor
           LEFT JOIN employee
11
           ON employee.VAT = consultation.VAT_doctor
               AND employee.name NOT LIKE "Jane Sweettooth"
  GROUP BY consultation_diagnostic.ID
  HAVING COUNT(DISTINCT employee.name) = 0)
16
  DELETE FROM procedure_
17
  WHERE name IN (
18
       SELECT procedure_in_consultation.name
       FROM appointment
20
21
           INNER JOIN consultation
           ON appointment.date_timestamp = consultation.date_timestamp
               AND appointment.VAT_doctor = consultation.VAT_doctor
23
           INNER JOIN procedure_in_consultation
24
           ON consultation.date_timestamp = procedure_in_consultation.
              date_timestamp
               AND consultation.VAT_doctor = procedure_in_consultation.
26
                  VAT_doctor
           LEFT JOIN employee
           ON employee.VAT = consultation.VAT_doctor
               AND employee.name NOT LIKE "Jane Sweettooth"
  GROUP BY procedure_in_consultation.name
  HAVING COUNT(DISTINCT employee.VAT) = 0)
31
  DELETE FROM employee
```

```
WHERE name = "Jane Sweettooth";
```

Since, when creating the table, ON DELETE CASCADE was used, when the employee *Jane Sweettooth* is removed, every row that contains her VAT is also deleted.

However, it is also asked to delete from database the diagnostic codes and procedures associated only to her. For example, if *Jane Sweettooth* is the only doctor able to perform a procedure, if she leaves the clinic, that procedure should be eliminated.

To do so, a temporary table containing the consultation IDs of the rows associated only to her is created. All the consultations diagnostics are gathered and a LEFT JOIN with the employee table was done ON the employee.VAT and the name NOT LIKE Jane Sweettooth, so the ones associated to the doctor Jane Sweettooth appear as null. The results are grouped by consultation_diagnostic.ID and a COUNT of DISTINCT employee.VAT is performed. If the only doctor associated to that diagnostic code is Jane Sweettooth, the COUNT will return 0. Therefore, the ones who return 0 are the ones selected and deleted.

The same method is applied to the procedure table.

5.4 Change 4

```
INSERT INTO diagnostic_code(ID,description)

SELECT * FROM (SELECT 'DC_11', 'Periodontitis') AS tmp

WHERE NOT EXISTS (

SELECT description FROM diagnostic_code WHERE LOWER(description)

LIKE '%periodontitis%'

LIMIT 1;
```

Add a new row to the diagnostic_code table corresponding to *periodontitis* if it does not already exist in it.

```
12 SET consultation_diagnostic.ID =
13     (SELECT DISTINCT ID
14     FROM diagnostic_code
15     WHERE LOWER(description) LIKE '%periodontitis%'
16     LIMIT 1)
17 WHERE consultation_diagnostic.date_timestamp = consultations.
     date_timestamp
18     AND consultation_diagnostic.VAT_doctor = consultations.VAT_doctor
     :
```

An INNER JOIN is applied between the consultation_diagnostic, diagnostic_code and procedure_charting tables. Then, only the rows containing the term *gingivitis* in the diagnostic_code.description are selected. Then, the rows are grouped by VAT_doctor and date_timestamp in order to obtain a different consultation in each row. The average gap measure for each consultation is done by applying AVG to procedure_charting.measure and make sure that it is greater than 4 (mm) in the HAVING statement.

6 Views Over the Tables

6.1 View 1

This view creates a table which contains every consultation on the first column and then the year, month and day of each consultation on adjacent columns.

6.2 View 2

This view creates a table with the VAT, gender and age of each client of our clinic.

6.3 View 3

```
CREATE OR REPLACE VIEW dim_location_client AS
SELECT DISTINCT client.zip AS ZIP, client.city AS "City"
FROM client;
```

This view creates a table with the zip code and city of each client of our clinic. A DISTINCT was used in order to not contain repeated ZIP codes.

6.4 View 4

```
CREATE OR REPLACE VIEW facts_consults AS
  SELECT dim_client.VAT AS "Client VAT", dim_date.date_timestamp AS "
      Date", dim_location_client.ZIP AS "ZIP", COUNT(DISTINCT
      procedure_in_consultation.name) AS "# Procedures", COUNT(DISTINCT
      prescription.name, prescription.lab) AS "# Medication", COUNT(
      DISTINCT consultation_diagnostic.ID) AS "# Diagnostic Codes"
  FROM dim_client
           INNER JOIN client
4
           ON dim_client.VAT = client.VAT
5
           INNER JOIN dim_location_client
           ON client.zip = dim_location_client.zip
           INNER JOIN appointment
           ON dim_client.VAT = appointment.VAT_client
9
           INNER JOIN dim date
           ON appointment.date_timestamp = dim_date.date_timestamp
11
           INNER JOIN consultation
12
           ON appointment.date_timestamp = consultation.date_timestamp
                   AND appointment.VAT_doctor = consultation.VAT_doctor
14
           LEFT JOIN consultation_diagnostic
           ON consultation.date_timestamp = consultation_diagnostic.
16
              date_timestamp
                   AND consultation.VAT_doctor = consultation_diagnostic
                      .VAT_doctor
           LEFT JOIN prescription
18
19
           ON consultation.date_timestamp = prescription.date_timestamp
                   AND consultation.VAT_doctor = prescription.VAT_doctor
20
           LEFT JOIN procedure_in_consultation
           ON consultation.date_timestamp = procedure_in_consultation.
              date_timestamp
                   AND consultation.VAT_doctor =
                      procedure in consultation. VAT doctor
  GROUP BY dim_client.VAT, appointment.date_timestamp;
```

This query creates a table with a different row for each consultation with the date of the consultation, the VAT and zip code of the client and the associated number of procedures, number of diagnostic codes, and number of prescribed medications.

A INNER JOIN was used to match the tables client, dim_location_client, appointment, dim_date, consultation, since there is a direct match between the rows of these

tables. Then a LEFT JOIN was used to match with consultation_diagnostic, prescription and procedure_in_consultation, since there might not be any corresponding match between the previously obtained tables and these ones.

Then, a GROUP BY dim_client.VAT and appointment.date_timestamp was used to group the information regarding each. Then a COUNT was applied to the DISTINCT values of columns procedure_in_consultation.name, pair prescription.name and prescription.lab, and consultation_diagnostic.ID.

7 Results

7.1 Queries

7.1.1 Query 1

Client VAT Nam	e	Phone	
5071193401 Abe	Casely	914674663	i
	am Rodden	1 916640904	i
	stair Boydon	918594218	i
	riana Bach		i
	mer Geeson		i
	de Nicklen		i
	ron Riccio		i
	il Sammon		i
	ki Houlson		i
	nardo Lynas		i
	nnie Halm		i
	ano Boice		i
	rilynn Braham		i
	rey Lampert		i
	udio Di Carli	911998536	i
	b Lehrle		i
1065284477 Cor	dy Addyman	914289428	i
	etta Wapol		i
	ver McGuire	914428166	i
5880863332 Del	ly McKinie	910787581	ı
8632411626 Dew	itt Pipping	914195712	ı
1288938172 Did	i Fossett	912822931	ı
7593875652 Dor	ree Harvison	918589128	ı
9366456197 Dru	Crosio	919265438	ı
2125409049 Elv	yn Lasselle	916865928	ı
8689053273 Emm	ery MacGowing	910795261	ı
8301432130 Eri	cha Ilyenko	917264907	ı
	rard Inderwick	916106890	ı
9309326893 Ewe	ll Tesdale	912044860	ı
4666833838 Flo	rencia Haveline	918412275	ı
	nklin Leindecker		ı
1443765898 Gas	ton May	917857497	ı
	es Touson		ı
	a Tadgell		ı
	ianne Fairbank		ı
	nn Brimman		ı
	i Erington		ı
	lielma Donnachie		
	ta Faucherand		
	ley Demare		
	ge Rickert		
	yn Giraudat		
	t Osipov		
	a Poff		
	d Goligher		
	el Frowen		
	i Louden		
	efa Dregan		
	y Crowest an Heibl		
1 4119010100 10Å	an neibi	1 91/000230	1

```
9261507324
               Julieta Weblin
                                         917053602
               Kendre Kynforth
Kingston Fowlds
1774361024
                                          911175646
7416995863
                                          911485354
4321553298
               Konrad Forsey
                                          910279719
               Laurena Simmell
2380246766
                                          917882709
9916815067
               Lavinia Jurca
                                          917056774
9666407194
               Libbey Dilliway
                                          914560129
7710870439
               Loni Kunneke
                                          913217491
7678417951
               Lorianna Leithgoe
                                          913637872
7412563835
               Lotta Stoodale
                                          912406184
9043514344
                                          918710461
               Lurline Duffie
               Marna Rickasse
Merle Sporton
7807464581
                                          910616523
8272343344
                                          915074389
2542736826
               Murdoch Semon
                                          915369267
6633747219
               Nap Cockerton
                                          914270294
1944111515
               Natka Jeavons
Neilla Cushworth
                                          914398321
3333638031
                                          912751887
               Nolly Morais
Obed Van den Bosch
Page Devanney
6978678991
                                          917105699
7763386444
                                          916663071
3721688004
                                          916628484
               Pat Fulbrook
Purcell Dickin
                                         915290213
913269713
3594045692
4681803112
3269972780
               Raf Gowlett
                                          913628945
               Reeta Hufton
Reinald Agron
                                         917844858
913970379
1889223122
3252775826
               Rockey Exall
Roldan Steinson
Ronni De Vries
7129224524
                                          919040272
2756537095
                                          910002817
7158549937
                                          919913328
3027642977
               Ruthann Tomek
                                          915453515
7277773552
               See Feron
                                          919139485
6164397671
               Sonnie Loade
Sonnie Stubbeley
                                          917954364
3787344317
                                          912875852
                                          912307543
7587186491
               Stephana Purvis
               Taber Swains
                                          916750141
8443316525
3044991851
               Terencio Munnis
                                          910284692
1347404557
               Tiena Derisley
Tobin Christensen
                                          919741400
6071361884
                                          911805923
4517801011
               Tonnie Stellin
                                          914740699
               Torr Yurkevich
6382296314
                                          912047587
               Tracy Cromly
Verina Lacheze
Zack Sartain
4444304768
                                          913436510
3852397258
                                          910505847
9795584884
                                          913743370
```

92 rows in set (0.04 sec)

7.1.2 Query 2

Trainee Dr Name	Train	ee Dr	VAT	Permanent	Dr Name	Evaluation	Score	Report	Description
Mike Oaxmall Hugh Jass	52240 77824	01850	İ	Mike Ratch Ben Dover			2	Insuff Weak	

2 rows in set (0.02 sec)

7.1.3 Query 3

+	-+-		-+-		+
Client Name	į	City	į	VAT	į
+	-+-		-+-		+
Clarey Lampert	1	Vila de Rei	-	1495182097	1
Cherilynn Braham	1	Quartier Morin	-	2512980241	1
Gena Tadgell	1	Sydney	-	2785024496	1
Andriana Bach	1	Kremidivka	1	3037318718	1
Sonnie Stubbeley	1	Huochezhan	1	3787344317	1
Cosetta Wapol	1	Jargalant	1	4834682164	1
Briano Boice	1	Invercargill	1	6409151986	1
Nolly Morais	1	Houston	1	6978678991	1
Basil Sammon	1	Huerta Grande	1	8236190259	1
+	-+-		-+-		+

9 rows in set (0.01 sec)

7.1.4 Query 4

Client	Name	i		i	City	i	Street	i	ZIP	code	i
Carlos	Lopes	i	6969696969	i	Porto	i	Maratona	i	1700	0-136	i

1 row in set (0.01 sec)

7.1.5 Query 5

+	+	-+	+
Diagnostic Code	Description	Number of distinct medications	1
+	+	-+	+
DC_10	Crooked teeth	1 0	1
DC_5	Periodontitis	1	1
I DC_7	Infectious disease	1	
DC_2	Gingivitis	1	
I DC_6	Impacted tooth	2	
DC_1	Broken tooth	2	1
I DC_8	Structural problems	1 2	
I DC_9	Enamel erosion	2	1
DC_3	Cyst due to Wisdom tooth	1 2	
DC_4	Dental Cavities	2	
+	+	-+	+

10 rows in set (0.02 sec)

7.1.6 Query 6

0: <=18 1: >18	Average Nurses	Average Procedures	Average Diagnostics	Average Prescriptions
0	1.6389 1.6288	1.0000		0.9444 0.8939

2 rows in set (0.04 sec)

7.1.7 Query 7

+		
Diagnostic	Code	Most used medication
+	+-	+
DC_1	- 1	Tylenol
DC_10	1	NULL
DC_2	1	PerioGard
DC_3	1	Tylenol
DC_4	1	Fluoride
DC_5	- 1	PerioGard
DC_6	1	Tylenol
DC_7	1	Metronidazole
DC_8	- 1	Calpol
DC_9	- 1	Fluoride
+	+-	+

10 rows in set (0.02 sec)

7.1.8 Query 8

Medication Name	Lab
Fluoride Hydroxyapatite	Lilly Roche
2 rows in set (0.02	'

7.1.9 Query 9

+			
Client Name		Street	ZIP code
			1700-089
			1700-108
			1700-073
, 2141 1022000	Dabas		1700-040
			1700-077
	Beicheng		1700-125 1700-056
	Yaguaraparo Xiangzikou	:	1700-056 1700-082
	Kalmar		1700-082 1700-041
•	Vila de Rei		1700-109
-		•	1700-059 I
	. •		1700-065
Reeta Hufton	Rustaq	Starling	1700-135
Natka Jeavons	Gazanjyk	Oneill	1700-081
Elvyn Lasselle	El Ocotana	Thompson	1700-058
Normie Fudge	Kidodi	Monterey	1700-055
Blinnie Halm	Nogent-sur-Marne		1700-096
Laurena Simmell	Pomerode	2nd	1700-043
Cherilynn Braham	Quartier Morin	Knutson	1700-083
Murdoch Semon	Ranilug	Hanson	1700-112
Roldan Steinson	Guantang		1700-093 1700-066
Gena Tadgell Gerianne Fairbank	Sydney Saffle		1700-066 1700-116
	Hammam Sousse	•	1700-116 1700-062
Andriana Bach	Kremidivka		1700-067
1	Nyurba		1700-007 1700-042
	San Juan de Mata	Vidon	1700-097
. •	Youcheng		1700-120
Dalila Baxandall	Kista	Westport	1700-054
Reinald Agron	Ifon	Nelson	1700-106
Everard Inderwick	Bykov	Lawn	1700-087
,	Wangkung		1700-060
•	Zhongshan	Iowa	1700-121
Pat Fulbrook	Ocongate		1700-122
,6	Vilcan		1700-075
Sonnie Stubbeley Verina Lacheze	Huochezhan Abelheira		1700-099 1700-064
Joyan Heibl		. •	1700-004 1700-100
Guglielma Donnachie		Jackson	1700-134
Konrad Forsey	La Roxas		1700-085
•	Davila	Manufacturers	
	Wenlin		1700-123
Florencia Haveline	Risalpur	Johnson	1700-124
Purcell Dickin	Daxing	Mandrake	1700-133
	Jargalant	Hallows	1700-131
	Sulaq	Linden	
,,	Levuka	•	1700-104
			1700-091
,	, maranghanaana	, 0011101	1700-098 1700-079
,	Kuala Lumpur Heshang	•	1700-079 1700-049
Abram Rodden	Loreto		1700-049 1700-127
Franklin Leindecker			1700 127 1700-063
	Taupo		1700-038
	Chervonohryhorivka		1700-046
	Hecheng		1700-119
Delly McKinie	. •	Erie	1700-070
Holt Osipov	Palalang	Merchant	1700-117
•	Ukata	•	1700-047
Cobb Lehrle	Santiago Vazquez	Division	1700-111

ī	Sonnie Loade	Kedungdoro	Homewood	1700-045
i	Jana Poff	Changsha	Marquette	1700-126
Ĺ	Torr Yurkevich	Fresno	Northport	1700-128
i	Briano Boice	Invercargill	Londonderry	1700-103
i	Nap Cockerton	Gajah	Anzinger	1700-084
i	Nolly Morais	Houston	Havey	1700-130
i	Rockey Exall	Manzil Zalafah	Graceland	1700-090
Ĺ	Ramsey Rickert	Manalongon	Anhalt	1700-053
Ĺ	Ronni De Vries	Candelaria	Magdeline	1700-094
Ĺ	See Feron	Ejigbo	Hovde	1700-068
Τ	Swen Playdon	Mombasa	Ryan	1700-052
1	Lotta Stoodale	Laboulaye	Cordelia	1700-095
1	Kingston Fowlds	Toledo	Basil	1700-071
1	Stephana Purvis	Qiongshan	Raven	1700-115
1	Dorree Harvison	Miracema	Shoshone	1700-076
1	Lorianna Leithgoe	Yako	Schiller	1700-088
1	Loni Kunneke	Toritama	Bluestem	1700-101
1	Obed Van den Bosch	Huyunxiang	Kipling	1700-092
1	Marna Rickasse	Tharyarwady	Nancy	1700-048
	Josy Crowest	Bell Ville	Helena	1700-037
	Basil Sammon	Huerta Grande	Independence	1700-105
1	Josefa Dregan	Adygeysk	Lake View	1700-080
	Merle Sporton	Qianfoling	Holy Cross	1700-061
	Ericha Ilyenko	Chengjiao	Northport	1700-044
1	Jobi Louden	Ifo	Old Gate	1700-036
1	Dorie Gilliam	Cuijiamatou	Dennis	1700-051
1	Taber Swains	Motrico	Sutherland	1700-072
1	Dewitt Pipping	Sigaozhuang	Holmberg	1700-102
1	Emmery MacGowing	Valerik	Vermont	1700-113
ı	Gnni Erington	Basco	Cambridge	1700-132
ı	Culver McGuire	Gobernador Costa	Scoville	1700-110
ı	Lurline Duffie	Puutuga	Kinsman	1700-107
ı	Milt Oughtright	Mujiangping	Prairieview	1700-050
ı	Julieta Weblin	Dubafsari	Blaine	1700-118
ı	Jewel Frowen	Tigaon	Mallard	1700-086
ı	Ewell Tesdale	Ikaalinen	Susan	1700-074
ı	Dru Crosio	Sanxing	Steensland	1700-078
1	Libbey Dilliway	Butwal	Pankratz	1700-039
!	Zack Sartain	Hengli	Pankratz	1700-129
ı	Lavinia Jurca	Ramotswa	Farwell	1700-057
+	+		+	++

100 rows in set (0.02 sec)

7.2 Changes

7.2.1 Change 1

	name					
3129297397	Jane Sweettooth	Ferreira	Sintra	1800-148		
l row in set						
077 4	66 . 1 (0 04	,				
	ow affected (0.01					
	1 Changed: 1 Was					
Rows matched: AFTER	1 Changed: 1 Was	rnings: 0				
Rows matched: AFTER +	1 Changed: 1 Wa:	rnings: 0 +	i	city	i	zip
Rows matched: AFTER + VAT + 3129297397	1 Changed: 1 Wa:	rnings: 0 + street + Rua de Mi	 + robriga	city Santiago do	 	zip 7540-109

7.2.2 Change 2

BEFORE +------

1	VAT	1	salary	-	${\tt Appointments}$	-1
+ -		-+-		-+-		-+
1	3129297397	1	3500.00	1	159	-
	3360575526	-	3500.00	-	48	
1	3601490264	-	2500.00	-	49	
	7103563823	-	2500.00	-	49	
	7706462800	-	3500.00	- 1	48	
+ -		-+-		-+-		-+

5 rows in set (0.01 sec)

Query OK, 1 row affected (0.02 sec) Rows matched: 1 Changed: 1 Warnings: 0

AFTER

+ VAT +	 +	salary	Appointments	
3129297 3360575 3601490 7103563 7706462	526 264 823	3675.00 3500.00 2500.00 2500.00 3500.00	1 159 1 48 1 49 1 49	

5 rows in set (0.01 sec)

7.2.3 Change 3

BEFORE

Total	Appointments	Total	Consultations
i	353		300
+		·	+

1 row in set (0.05 sec)

Query OK, 1 row affected (0.23 sec)

AFTER

+			-+				+
1	Total	Appointments	1	Total	Consultations	3	1
+			-+				+
1		194	1		187	7	1

1 row in set (0.02 sec)

7.2.4 Change 4

BEFORE

ID	1	description	Average Gap
DC_2	1	Gingivitis	4.31250
I DC_2	1	Gingivitis	4.09375
I DC_2	-	Gingivitis	4.62500
I DC_2	1	Gingivitis	4.31250
I DC_2	-	Gingivitis	4.28125
I DC_5	-	Periodontitis	4.65625
I DC_5	-	Periodontitis	4.28125
I DC_5	-	Periodontitis	4.50000
I DC_2	-	Gingivitis	4.31250
DC_2	-	Gingivitis	4.37500
I DC_5	-	Periodontitis	4.56250
I DC_2	-	Gingivitis	4.21875
I DC_5	-	Periodontitis	4.06250
I DC_5	-	Periodontitis	4.03125
I DC_5	-	Periodontitis	4.18750
I DC_5	-	Periodontitis	4.28125
I DC_5	-	Periodontitis	4.31250
I DC_2	-	Gingivitis	4.12500
DC_2	-	Gingivitis	4.37500
I DC_5	-	Periodontitis	4.12500

20 rows in set (0.02 sec)

Query OK, 10 rows affected (0.02 sec) Rows matched: 10 Changed: 10 Warnings: 0

A l	FTER				
+ -		-+-		-+-	+
1	ID		description	1	Average Gap
+ -		-+-		-+-	+
	DC_5		${\tt Periodontitis}$		4.31250
1	DC_5		Periodontitis		4.09375
1	DC_5		Periodontitis		4.62500
1	DC_5		Periodontitis		4.31250
1	DC_5		Periodontitis		4.28125
	DC_5	-	Periodontitis		4.65625
1	DC_5		Periodontitis		4.28125
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1	DC_5	-	Periodontitis	1	4.28125
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20 rows in set (0.02 sec)

7.3 Views

7.3.1 View 1

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2019-01-30	06:31:54	2019	1	30
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7.3.2 View 2

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3852397258		
4175670708		
4192964808		
4321553298		
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4517801011	Male	22
4666833838		
4681803112		
4834682164		
5057692187		
5071193401		
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101 rows in set (0,06 sec)

7.3.3 View 3

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1700-108 1700-073	Lisbon
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1 1700 -125	Beicheng
1700 120 1700-056	Yaguaraparo
1 1700 000 1	Xiangzikou
I 1700-041 I	Kalmar I
1700-109	Vila de Rei
I 1700-059 I	Sengeti
I 1700-065 I	Sung Noen
1700-135	Rustag
1700-081	Gazanjyk
1700-058	El Ocotana
1700-055	Kidodi
1700-096	Nogent-sur-Marne
1700-043	Pomerode
1700-083	Quartier Morin
1700-112	Ranilug
1700-093	Guantang
1700-066	Sydney I
1700-116	Saffle
1700-062	Hammam Sousse
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1700-097	San Juan de Mata
1700-120	Youcheng

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1700-106
              Ifon
1700-087
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1700-060
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Ocongate
1700-122
1700-075
1700-099
              Vilcan
              Huochezhan
1700-064
              Abelheira
1700-100
1700-134
              Guadalupe
              Sangmalima
La Roxas
1700-085
1700-114
              Davila
1700-123
              Wenlin
1700-124
              Risalpur
1700-133
1700-131
              Daxing
Jargalant
1700-069
              Sulaq
1700-104
              Levuka
Prakhon Chai
1700-091
1700-098
1700-079
              Karangkancana
Kuala Lumpur
1700-049
              Heshang
1700-127
1700-063
              Loreto
Lazaro Cardenas
              Taupo
Chervonohryhorivka
Hecheng
1700-038
1700-046
1700-119
1700-070
              Dashiqiao
1700-117
              Palalang
1700-047
              Ukata
1700-111
              Santiago Vazquez
1700-045
              Kedungdoro
Changsha
1700-126
              Fresno
Invercargill
1700-128
1700-103
1700-084
              Gajah
1700-136
              Porto
1700-130
              Houston
1700-090
              Manzil Zalafah
1700-053
              Manalongon
Candelaria
1700-094
1700-068
              Ejigbo
1700-052
              Mombasa
1700-095
              Laboulaye
1700-071
1700-115
              Toledo
              Qiongshan
1700-076
              Miracema
1700-088
1700-101
              Yako
Toritama
1700-092
              Huyunxiang
1700-048
              Tharyarwady
Bell Ville
1700-037
1700-105
1700-080
              Huerta Grande
             Adygeysk
Qianfoling
1700-061
1700-044
1700-036
              Chengjiao
              Ifo
1700-051
              Cuijiamatou
1700-072
1700-102
              Motrico
              Sigaozhuang
Valerik
1700-113
1700-132
1700-110
              Basco
Gobernador Costa
1700-107
              Puutuga
1700-050
1700-118
              Mujiangping
Dubafsari
1700-086
              Tigaon
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101 rows in set (0,04 sec)

7.3.4 View 4

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1065284477	1 2019 06 24 00.20.30	1 1700 000	1 1	1 1	1
1065284477	1 2019-06-20 09:52:35	I 1700-089	1 1	1 1	1
1125478009	2019-04-21 14:02:38 2019-09-21 07:34:05 2019-09-14 05:27:20 2019-06-14 01:50:29 2019-07-19 12:25:25	I 1700-108	, <u> </u>	1 1	1
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1251928457	1 2019 04 14 00.27.20	1 1700 073	1 1	1 1	1
1251320457	1 2019 00 14 01.30.29	1 1700 073	l 1	1	i ±
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	2019-07-07 04:57:07		1	1	
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	2019-04-06 20:14:12			1	1
	2019-04-14 12:18:12		1	1	1
	2019-07-08 01:19:30		. <u>.</u>	1	
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	2019-01-25 21:27:26		, 1 I 4	l 1	, <u>1</u>
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	2019-02-17 08:19:03		1	1	1
	2019-02-27 04:25:43		1	1	
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	2019-05-04 20:35:09			1	1
	1 2019-06-05 04:09:05		1	1	1
	2019-09-05 02:37:15		1	1	1
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	2019-07-26 03:36:21		1 1	1	1
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	2019-08-13 22:44:49		, <u>1</u>	l 1	, <u>1</u>
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	2019-09-02 03:40:39			1	1

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	2019-01-18 20:29:04			1	1
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	8372266270	2019-01-07	04:38:23	1700-036	1	1	1
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	8379611058	2019-04-14	01:58:29	1700-051	1	1	1
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300 rows in set (0,19 sec)