**Report TP1**

**Subject:** Postgresql

**Students:** BOURBAI Ismail

**PART 1:**

**Q1.1:**

The following screenshots show the queries of creation some tables:

* PS: All the queries are available in the source code (GitHub or the SQL attachment file).

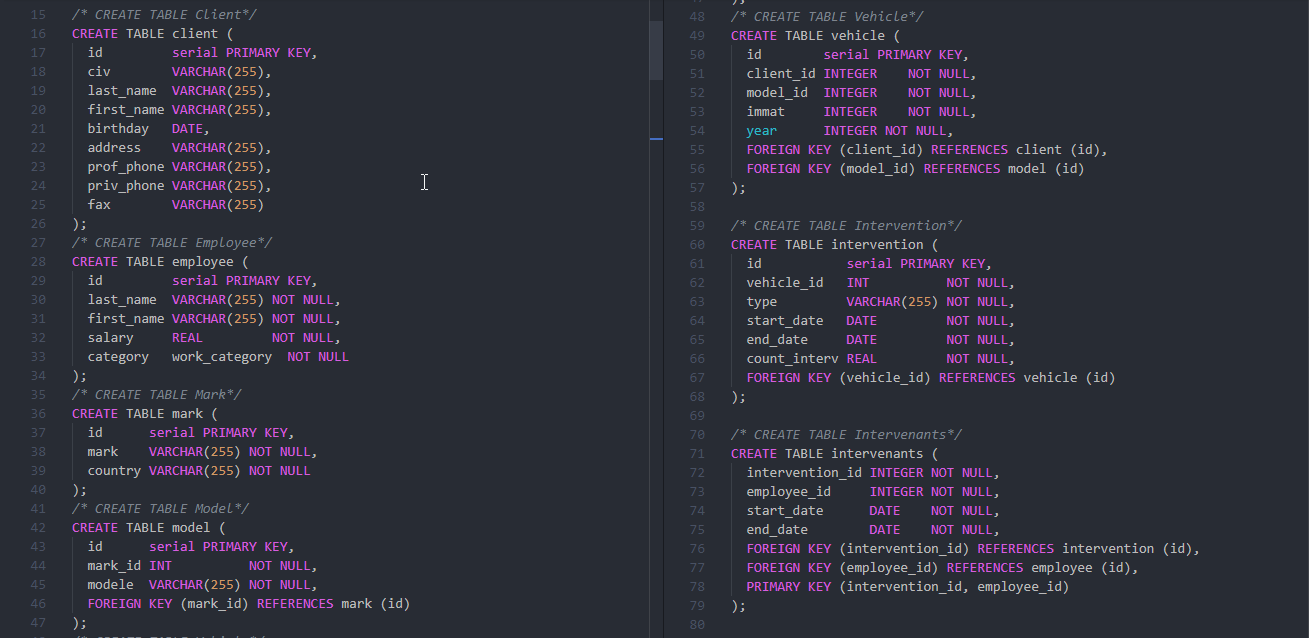


Figure 1 Creations of tables

**Q1.2:**

There is a lot of problems encountered:

* The field value of birthday date of the last row in client table (M. Lamine MZEABAT) is out of the range: “09/13/1965”.
* The *NUMMARQUE = 45* is not found in table *mark,* and when try to insert it in *model* table it’s violates foreign key constraint.
* The same previous problem:
* *NUMMODEL = 77* is not found in table *Model* when inserting on *Vehicle* table.
* *NUMCLIENT = 80* is not found in table *CLIENT* when inserting on *Vehicle* table.
* *NUMMODEL = 77* is not found in table *Model* when inserting on *intervention* table.
* *NUMEMPLOYEE = 88* is not found in table *Employee* when inserting on *intervenants* table.

**Q2**:

When the salary of *BADI Hatem* increased by *5000DA* we must update the row in the database. We do that by execute the following query:

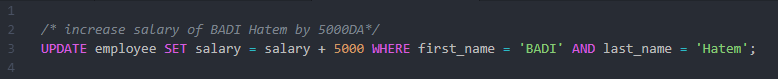


Figure Update query

**Q3**:

To add a five days to the start date for February interventions, we execute the following query:

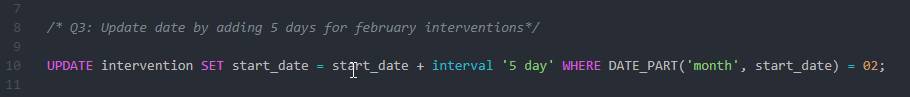


Figure 3 Update date query

**Q4**:

We can’t delete the vehicle of *Serie 5* model because that’s violates **foreign key constraint**.

*Detail: the row still referenced from table “vehicle”.*

PS: We can force delete by using *ON DELETE CASCADE*.

**PART 2:**

**Q5:**

To display all model with their mark, we execute the following query:

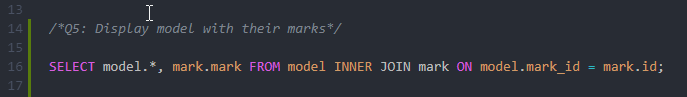


Figure 4 Display model and mark

And the result of this query is:

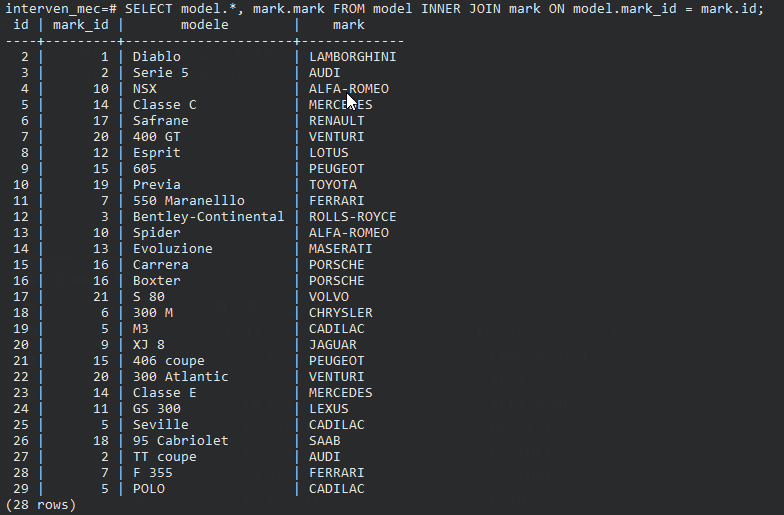
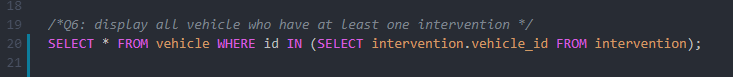


Figure 5 Result of the above query

**Q6:**

To display all vehicle who have at least one intervention, we execute the following query:



And the result of this query is:

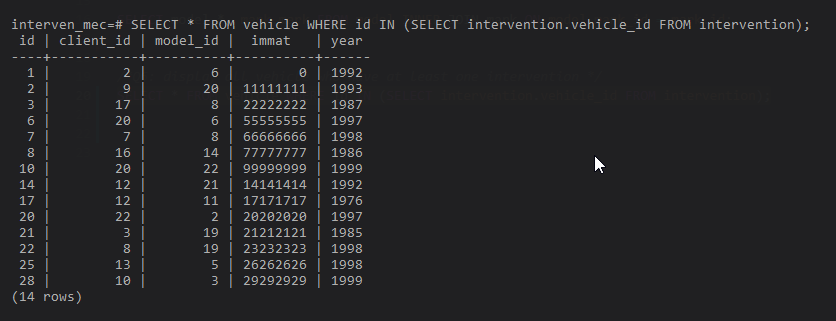


Figure 6 Result of displaying vehicle