

Outil de complétion

If you are reading this sheet, this means the software you will use during the test is a SQL editor with a new functionality : SQL query completion. This completion is based on the data stored in the database, et can therefore help you for the database exploration.

Here is a brief explanation of what you can do :

- Write a valid SQL query (zone A)
- Modify the number of completion you want to obtain (zone B)
- Ask for the completions of your query (completions will appear in zone D)
- In zone C you can see the result of the evaluation of the query : either your query from zone A if you click on the button "Evaluate query", or directly by clicking on a completion from zone D

Example :

Let's imagine a database *People* containing two attributes : *name* and *age*. You enter the query "Select * from People", you could obtain several completions::

- **Select * from People where age < 20**
- **Select * from People where age > 20 and age <40**
- **Select * from People where age > 20 and age >40**

Limitations :

- The tool can only complete a query that is valid (i.e in returns a result)
- The tools can only complete queries with a result set with more than 3 tuples.

The screenshot shows the 'Query Completion Framework' window. It is divided into several sections:

- Write SQL input query (Zone A):** Contains the text: 'Select *', 'From Packages, Cities', and 'Where Packages.destination = Cities.city_ID'.
- Completion suggestions (Zone D):** Lists several SQL query completions, such as 'select * from packages, cities where packages.destination = cities.city_id and weight <= 4453.16503906 and distance <= 4604.5 and v'.
- Buttons (Zone B):** Includes 'Complete query', 'Evaluate query', and 'Complete selected query'.
- Maximum number of completions:** A slider set to 6.
- Query evaluation: 10999 tuples (Zone C):** Displays a table of results with columns: package_ID, destination, length, width, height, weight, price, city_ID, distance. The table contains 15 rows of data.