Create database called «lab10»

**Use a recommendation from lexical structure and add comment for each query below.**

Create a new table with 3-4 columns and 10 filled rows.

For ex:

|  |  |  |  |
| --- | --- | --- | --- |
| ID | University name | COUNTRY | Rating |
| 1 | KBTU | KAZAKHSTAN | 90 |
| 2 | SDU | KAZAKHSTAN | 90 |
| 3 | IT | KAZAKHSTAN | 89 |
| 4 | KIMEP | KAZAKHSTAN | 89 |
| 5 | STANFORD | USA | 98 |
| 6 | HARVARD | USA | 97 |
| 7 | OXFORD | UK | 95 |
| 8 | YALE UNIVERSITY | USA | 93 |
| 9 | MIT | USA | 100 |
| 10 | CAMBRIDGE | UK | 94 |

**Use language plpgsql for all tasks below:**

1. Create a stored function that will return math operation result on your data (for ex: sum()). *10p*
2. Create a stored function that will return text operation result on your data (for ex: lower()). *10p*
3. Create a stored function that take(s) IN parameter(s) and will return 1 column values from table. *10p*
4. Create a stored function that will add a new row to the table. *10p*
5. Create a stored function that take(s) IN parameter(s) and will return all columns’ values from table (Hint: OUT). *20p*
6. Create a stored function that take(s) IN parameter(s) and will returns 1 math and 1 text operation as output parameter. (for ex: sum(), lower(). Hint: OUT). *20p*
7. Create a stored function that an IN parameter and returns output in the same parameter (for ex: taking square of, Hint: INOUT). *20p*

* **Do not use provided examples in your solution!**
* Save query file as ***Lab10\_Lastname\_Firstname.sql*** and sent to **a.zhumekenov@kbtu.kz**