**TASK №2**

Create a new database mini\_project. This database will have 2 tables:

1) T\_TAB1 – products with description (product type, quantity, amount and seller)

2) T\_TAB2 – employee names, their age and salary

The structure and data type in each table look like this (rows in the tables must be added by a query):

**T\_TAB1**

ID (INT, UNIQUE) – unique identifier

GOODS\_TYPE (VARCHAR) – type of product sold

QUANTITY (INT) – quantity of product sold

AMOUNT (INT) – total cost of product

SELLER\_NAME (VARCHAR) – seller name

Строки в T\_TAB1

SELECT \* FROM T\_TAB1

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | GOODS\_TYPE | QUANTITY | AMOUNT | SELLER\_NAME |
| 1 | MOBILE PHONE | 2 | 400000 | MIKE |
| 2 | KEYBOARD | 1 | 10000 | MIKE |
| 3 | MOBILE PHONE | 1 | 50000 | JANE |
| 4 | MONITOR | 1 | 110000 | JOE |
| 5 | MONITOR | 2 | 80000 | JANE |
| 6 | MOBILE PHONE | 1 | 130000 | JOE |
| 7 | MOBILE PHONE | 1 | 60000 | ANNA |
| 8 | PRINTER | 1 | 90000 | ANNA |
| 9 | KEYBOARD | 2 | 10000 | ANNA |
| 10 | PRINTER | 1 | 80000 | MIKE |

**T\_TAB2**

ID (INT, UNIQUE) – unique identifier

NAME (VARCHAR) – employee name

SALARY (INT) – employee salary

AGE (INT) – employee age

Rows in T\_TAB1

SELECT \* FROM T\_TAB2

|  |  |  |  |
| --- | --- | --- | --- |
| ID | NAME | SALARY | AGE |
| 1 | ANNA | 110000 | 27 |
| 2 | JANE | 80000 | 25 |
| 3 | MIKE | 120000 | 25 |
| 4 | JOE | 70000 | 24 |
| 5 | RITA | 120000 | 29 |

Hint: T\_TAB1.SELLER\_NAME = T\_TAB2.NAME

After creating the database and tables, complete the following tasks:

1. Write a query that will return a list of unique product categories (GOODS\_TYPE). How many unique product categories will the query return?

2. Write a query that will return the total quantity and total cost of mobile phones sold. What is the total quantity and total cost of the query?

3. Write a query that will return a list of employees with a salary > 100,000. How many employees did the query return?

4. Write a query that will return the minimum and maximum age of employees, as well as the minimum and maximum salary.

5. Write a query that will return the average number of keyboards and printers sold.

6. Write a query that will return the employee name and the total cost of the goods sold.

7. Write a query that will return the employee name, product type, product quantity, product cost, employee salary, and age MIKE.

8. Write a query that returns the name and age of an employee who has not sold anything. How many such employees are there?

9. Write a query that returns the name and salary of an employee who is under 26 years old? How many rows does the query return?

10. How many rows does the following query return:

SELECT \* FROM T\_TAB1 t

JOIN T\_TAB2 t2 ON t2.name = t.seller\_name

WHERE t2.name = 'RITA';