TASK REPORT WEEK PROGRAMING WEEK 4



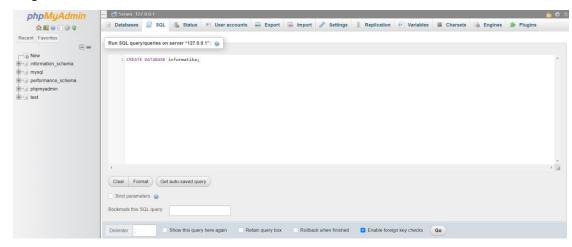
Created by: Cesario Hafidh Arifa Noorcholish L200224217

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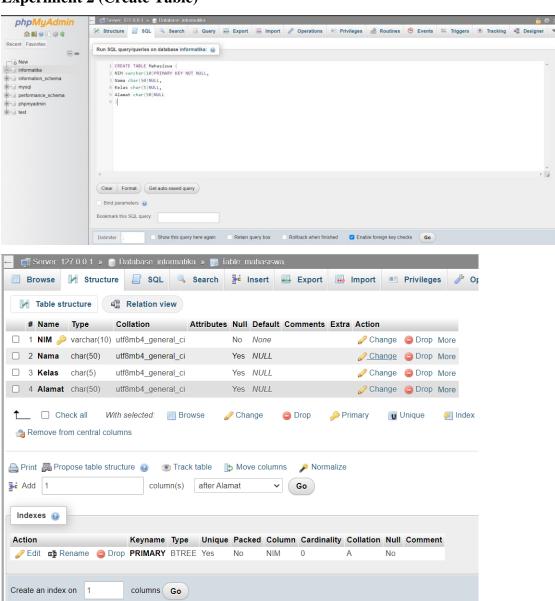
INFORMATICS ENGINEERING
FACULTY OF COMMUNICATION AND INFORMATICS
UNIVERSITAS MUHAMMADIYAH SURAKARTA
2023/2024

TASK

1. Experiment 1 (Create Database)



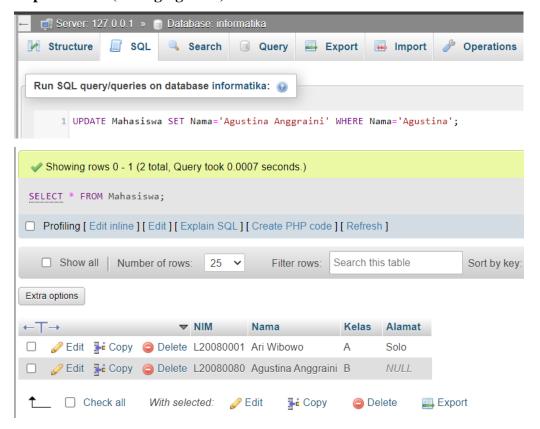
2. Experiment 2 (Create Table)



3. Experiment 3 (Insert Data)

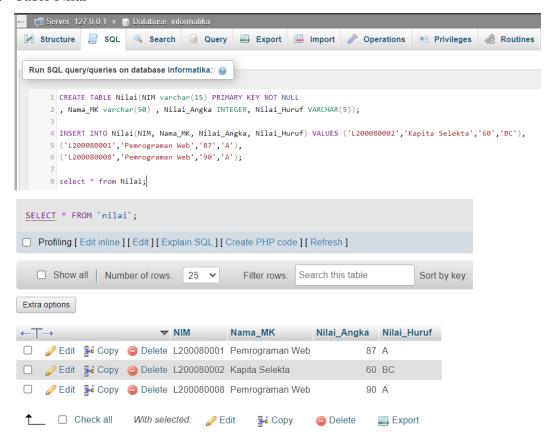


4. Experiment 4 (Changing Data)

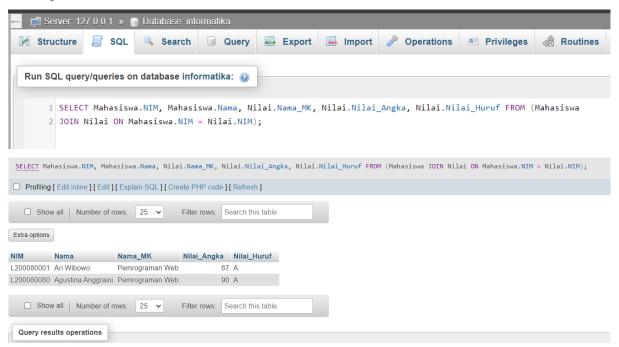


5. Experiment 5 (Join)

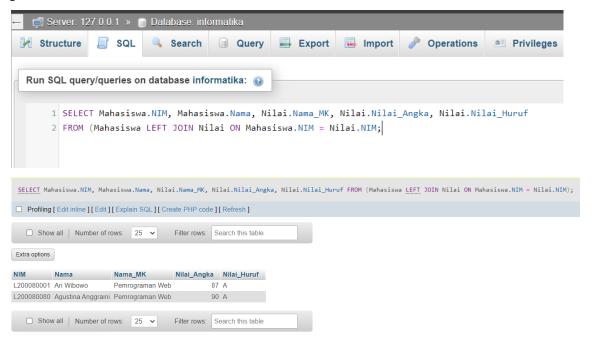
1. Table Nilai



2. Experiment



6. Experiment 6 (Left Join)

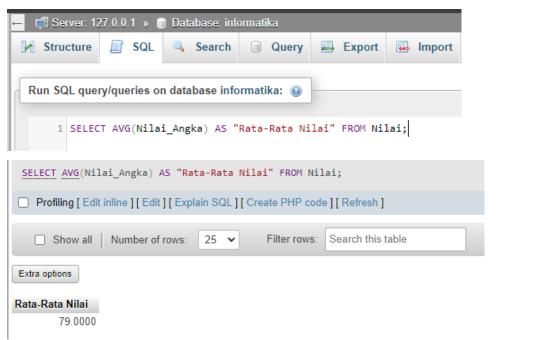


7. Experiment 7 (Right Join)

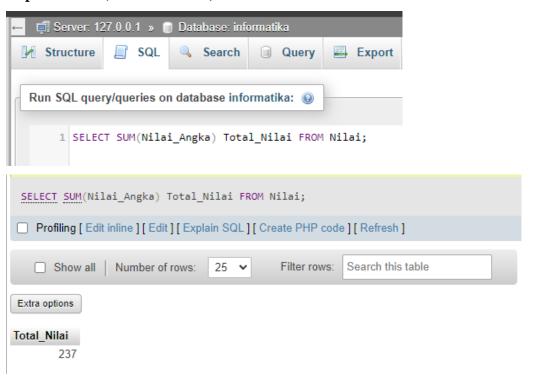




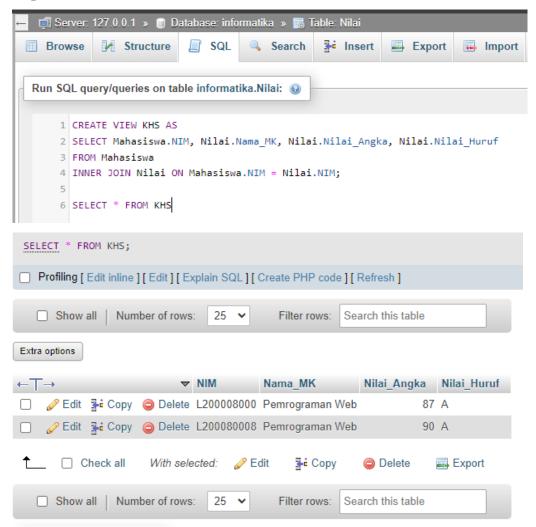
8. Experiment 8 (AVG Function)



9. Experiment 9 (SUM Function)



10. Experiment 10 (View)



ASSIGNMENT

1. What is the function of some of the following:

1) SELECT

The SELECT statement retrieves specific data from one or more database tables. It allows users to specify the columns they want to retrieve and can include additional clauses for filtering, sorting, grouping, and limiting results

2) JOIN

The JOIN operation combines rows from two or more tables based on a related column between them. It retrieves records that have matching values in the specified columns from both tables.

3) LEFT JOIN

A LEFT JOIN retrieves all records from the table specified on the left side of the join operation and matching records from the table on the right side. If there is no

match in the right table, NULL values are returned for the columns of the right table.

4) RIGHT JOIN

A RIGHT JOIN is similar to a LEFT JOIN, but it retrieves all records from the table specified on the right side of the join operation and matching records from the left table. If there is no match in the left table, NULL values are returned for the columns of the left table.

5) AVG

The AVG function is an aggregate function used to compute the average value of a numeric column in a result set. It excludes NULL values from the calculation.

6) SUM

The SUM function is an aggregate function used to calculate the total sum of values in a numeric column in a result set. It adds up all the values in the specified column.

2. Write SQL Syntax to populate Address data "Sragen" in the Students table (experiment 3) in NIM L20008080.

