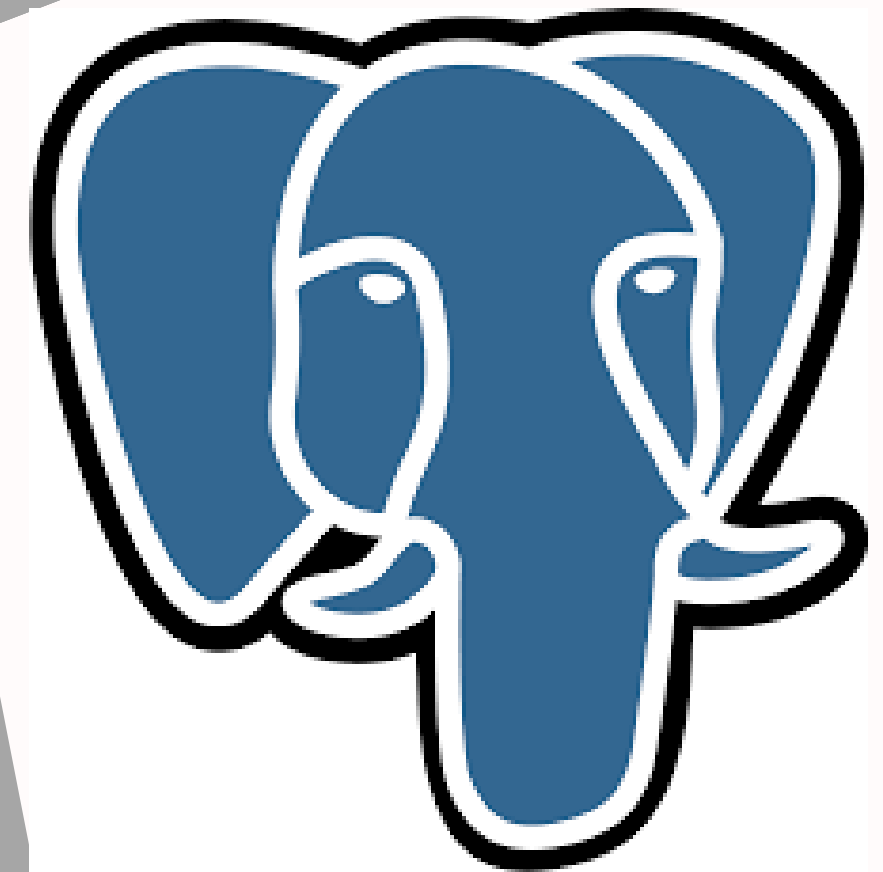


PORTFOLIO POSTGRESQL

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CASE STUDY

- Create a Student Database
- Create student data table, lesson data table, grade data table
- Fill each table with dummy data
- Create a query to display the average score report for each lesson
- Create a query to display a report of which students get the highest score for each lesson

CREATE TABLE

Student Table

commands.sql

3zpur6bwv

```
1
2  -- CREATE
3  CREATE TABLE STUDENT (
4    absence INTEGER PRIMARY KEY,
5    name TEXT NOT NULL,
6    gender TEXT NOT NULL
7  );
8
```

Output

CREATE TABLE

Value Table

```
CREATE TABLE VALUE (
  absence INTEGER PRIMARY KEY,
  math_value INTEGER NOT NULL,
  biology_value INTEGER NOT NULL,
  chemistry_value INTEGER NOT NULL,
  physics_value INTEGER NOT NULL
);
```

Output

CREATE TABLE

AVERAGE VALUE OF EACH LESSON

Input

```
SELECT AVG(VALUE.math_value) as rata_rata_nilai_matematika  
FROM VALUE
```

```
SELECT AVG(VALUE.biology_value) as rata_rata_nilai_biologi  
FROM VALUE
```

```
SELECT AVG(VALUE.chemistry_value) as rata_rata_nilai_kimia  
FROM VALUE
```

```
SELECT AVG(VALUE.physics_value) as rata_rata_nilai_fisika  
FROM VALUE
```

Output

```
rata_rata_nilai_matematika  
-----  
80.5000000000000000  
(1 row)
```

```
rata_rata_nilai_biologi  
-----  
76.9000000000000000  
(1 row)
```

```
rata_rata_nilai_kimia  
-----  
77.4000000000000000  
(1 row)
```

```
rata_rata_nilai_fisika  
-----  
79.2000000000000000  
(1 row)
```

```
SELECT STUDENT.name, VALUE.math_value
FROM STUDENT
JOIN VALUE ON VALUE.absence = STUDENT.absence
ORDER BY VALUE.math_value DESC LIMIT 1
```

```
SELECT STUDENT.name, VALUE.biology_value
FROM STUDENT
JOIN VALUE ON VALUE.absence = STUDENT.absence
ORDER BY VALUE.biology_value DESC LIMIT 1
```

```
SELECT STUDENT.name, VALUE.chemistry_value
FROM STUDENT
JOIN VALUE ON VALUE.absence = STUDENT.absence
ORDER BY VALUE.chemistry_value DESC LIMIT 1
```

```
SELECT STUDENT.name, VALUE.physics_value as
FROM STUDENT
JOIN VALUE ON VALUE.absence = STUDENT.absence
ORDER BY VALUE.physics_value DESC LIMIT 1
```

name	math_value
Grasberg	95

(1 row)

name	biology_value
Hanasa	89

(1 row)

name	chemistry_value
Rifqi	88

(1 row)

name	physics_value
Abdurrahman	90

(1 row)

**STUDENTS
WHO
GET
THE
HIGHEST
SCORE
FOR EACH
LESSON**