SULEYMAN DEMIREL UNIVERSITY

**ENGINEERING FACULTY**

**CSS 305 - Database Management Systems 2**

# Project documentation

# SDataU

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**Structure:**

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* ***Abstract***

Our project is about helping students on their way to graduate from university. And the main purpose of our project is to give students statistics about certain courses and teachers so that they know which courses to enroll in advance. We will also add in some other useful functions.

* ***Introduction***

Why do students drop out of university?

Before applying, an applicant should learn about the main reasons why students drop out of school and refuse a diploma of higher education. There are multiple factors, and each course has its own reason. The Ministry of Education is puzzling over why every fifth student leaves the walls of the university without a diploma. And the reason lie on the surface.

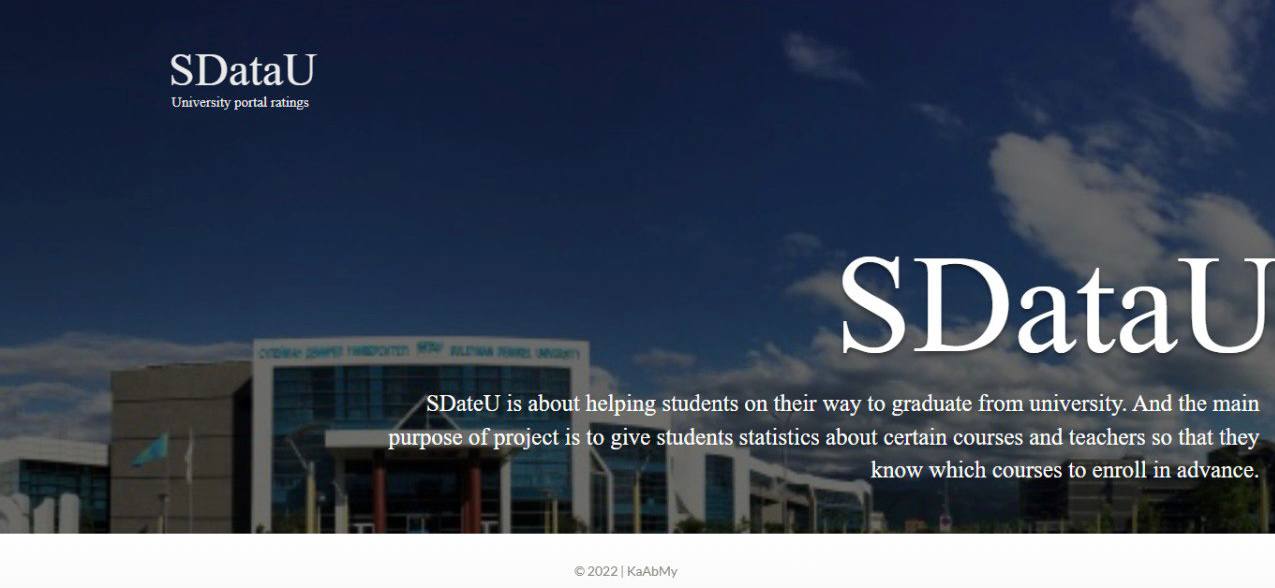
Underachievement

In the first or second year, a student can simply be expelled from an educational institution for poor progress. The problem is that yesterday's schoolboy finds himself in an unusual environment where no one is running after him. As a result, he relaxes and becomes lagging behind. Young people who came to study from a small town to a metropolis are generally beginning to feel the taste of freedom.

Awareness

After the student has successfully completed the first two courses, he begins to realize that he is not doing what he would like to do. His choice of courses may have been wrong. Sometimes the choice is made not by the student himself, but by friends. In general, realizing that he is studying at the wrong faculty, a student can leave the university.

We know that at the beginning of the semester, our SDU students have problems choosing subjects and teachers. Most students do not know what subject they like.



* ***Aim and objectives of research***

***Aim:*** To develop a system that can help students at the stage of choosing subjects of bachelor's degree in Kazakhstan.

***Objectives:***

• Find the most popular teacher in the semester section (You must go through the semester and year number and subject code, and also display the teacher's practice and lecture). For example, teachers of lectures on programming technology: Instructor1, Instructor2. Practice Teachers: Teacher1, Teacher2, Teacher3.

• Calculate the student's GPA for the semester and total

• Teacher rating for the semester (list)

• Subject rankings per semester (list)

• Calculate the total number of retakes for all time and withdraw the profit.

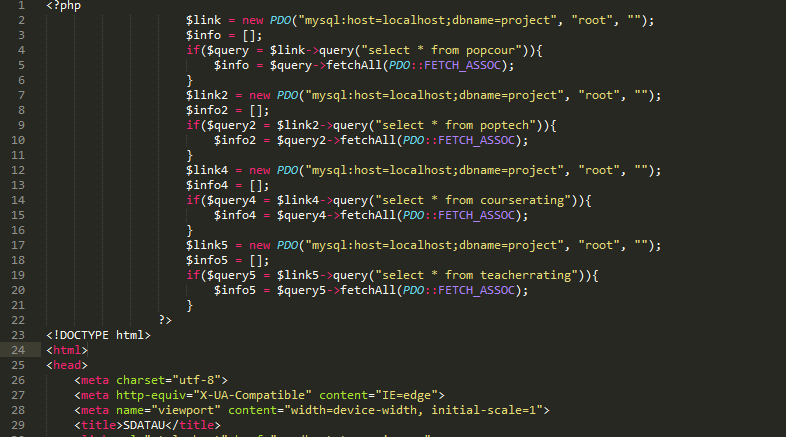
* ***Background review***

Nowadays, every student asks the question: what courses to choose, what teacher to choose. But before that, there is a big question: in what direction of the speciality will he be able to work after successfully graduating from the university and graduating from the speciality. The real problem is that 60 percent of graduates do not work in the speciality in which they graduated. We are confident that this product will reduce the percentage to about 35 percent as it is going to naturally help students choose what they actually want and need instead of relying on cool and attractive names of courses and randomness.

* ***Methods and Materials***

We used pre-collected data from SDU website.We used information about specialities(Course codes), courses, teachers(teacher IDs) and students(student IDs) and etc.

For adding DB and Pl/Sql we used PHP/HTML to display data on the website.



PHP example code of connecting to data

***Data and Results***

**Table description.**

Here are all the data that were included in the tables.

**Table: Course\_schedule**

DERS\_KOD – course code (code of subject)

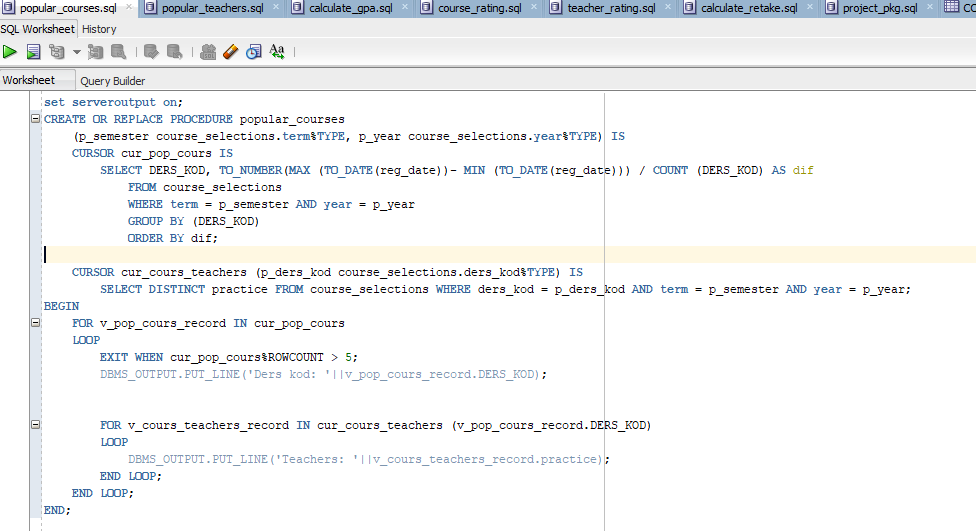
YEAR – year when subject was conducted

TERM – 1 – Fall, 2-Spring

DERS\_S\_ID –

SECTION –

MIN(START\_TIME) – time of subject on week by schedule



**Table: Course\_sections**

DERS\_SOBE\_ID –

DERS\_KOD – course code (code of subject)

YEAR – year when subject was conducted

TERM – 1 – Fall, 2-Spring

SECTION –

TYPE – N,L – lection P- practice

EMP\_ID – id teacher, instructor

MESSAGE – comment

WEEK\_NUM – how many weeks

HOUR\_NUM – how many hours for semester

PACKET\_DERS – skip

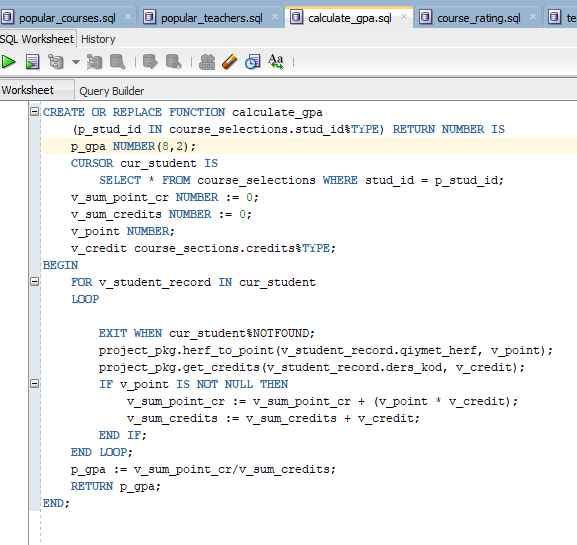
ATTEND\_TYPE – skip

PAID\_SECTION – skip

EMP\_ID\_ENT – id teacher, instructor who can inter marks

LAST\_MODIFIED – last marks modified time

Credits – number of credits



**Table: Course\_selections**

STUD\_ID – id student

DERS\_KOD – course code (code of subject)

YEAR – year

TERM - 1 – Fall, 2-Spring

SECTION – section

LAB\_SOBE\_ID - skip

QIYMET\_YUZ – total mark of the course

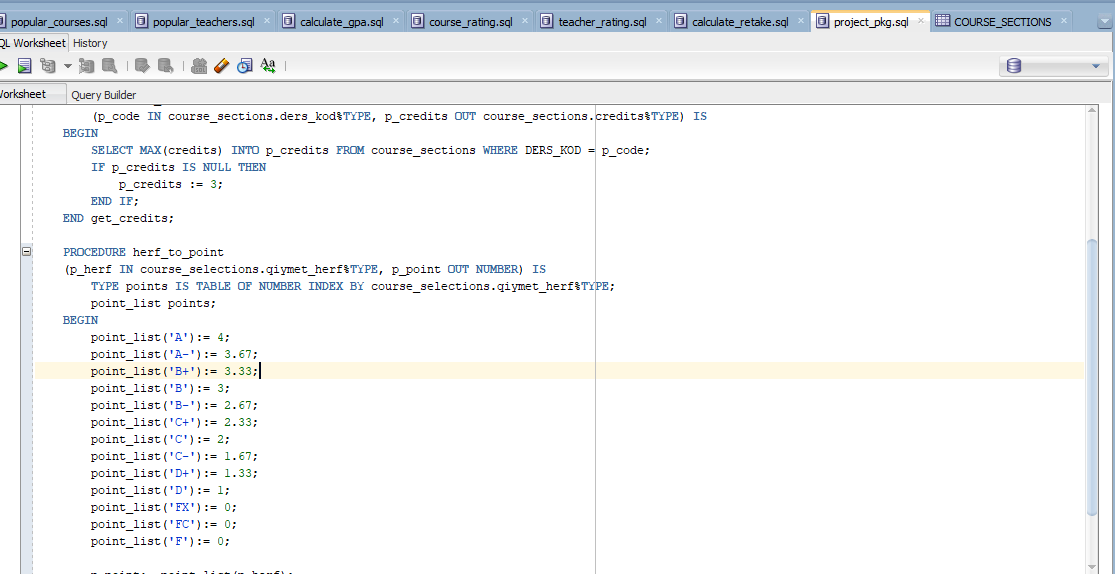
QIYMET\_HERF - total mark of the course

GRADING\_TYPE – PNP –pass / no pass, N - standart

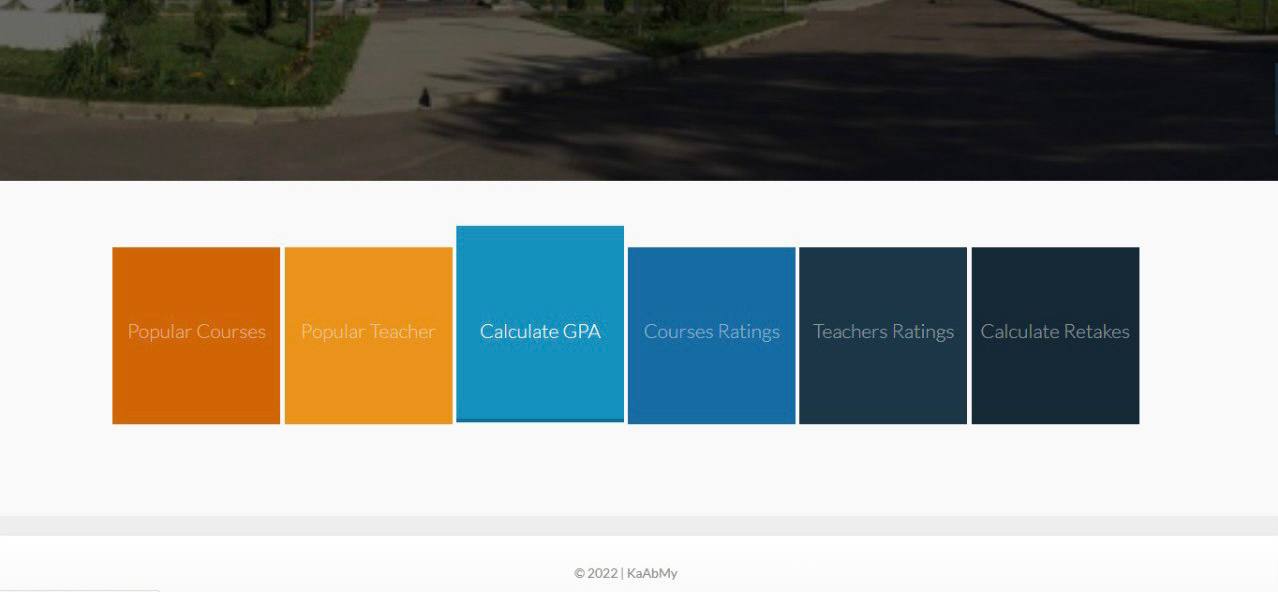
ATTENDED – skip

PRACTICE – practice teacher

REG\_DATE – registration time



We did not get to use all the data, as most of them did not target our agenda.



* ***Discussion***

This study showed a large number of differences in occupations for each individual specialty. Within the framework of these data, we could look at the ratio of universities between specialties and professions. Such data is collected to analyze the experience of each institution.

* ***Conclusion***

In conclusion, it should be said that the project involves the emergence of problems with the choice of subjects, and we expect that our five kopecks can be used for practical purposes or in several directions. This will help build a forecasting system and build a flexible system for building a statistics system. In the process of writing this project, our attitude changed a lot after this study. We realized the impact of the choice of subjects and made a general overview of the university. In conclusion, we believe that our approach and application will be useful and favorable.

* ***References***

[Extracting information from the database to the site](https://www.youtube.com/watch?v=z3m8quiQCFU&t=831s)

[Profile List – Suleyman Demirel University (sdu.edu.kz)](https://sdu.edu.kz/profile-list/?staff-az=*)

[We took a lot of data from teacher Aisultan](https://github.com/AlikhanAbdigani/project_db/tree/main/tables)

<https://dknews.kz/ru/dk-life/161964-pochemu-kazahstancy-brosayut-uchebu-v-universitetah>

[Our video](https://youtu.be/TnDBMor-OIg)