**Homework Task Database Sac 4 Part 1**

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*Problem:*

John Monash Science School’s homework database is outdated and needs to be replaced. The principal has requested that the database records information about the homework task, including the subject it is part of, the teacher of the class, and the student completing the task. This database will allow students to easily access the details of any homework tasks as well as any grades that have been released. It will also provide teachers with a means of checking on their students’ progress and releasing grades. Some limitations of this database are that it may be difficult to implement on a large scale and that access to specific information will need to be configured for different groups of people.

*Solution:*

A database for homework tasks and other related information will allow easy access for teachers, students and other staff to relevant information regarding homework. It will enable the accessing, manipulation, storing and editing of data.

*ERD:*

**erDiagram**

    Teacher **{**

        text teacherID Pk

        text Name

**}**

    Subject **{**

        text subjectID Pk

        text Name

        text teacherID Fk

**}**

    Task **{**

        text taskID Pk

        integer dueDate

        integer submissionStatus

        integer grade

        text subjectID Fk

**}**

    Allocation **{**

        text allocationID Pk

        text taskID Fk

        text studentID Fk

**}**

    Student **{**

        text studentID Pk

        text Name

**}**

    Teacher **||--|{** Subject **:** ""

    Subject **||--|{** Task **:** ""

    Allocation **||--|{** Task **:** ""

    Allocation **||--|{** Student **:** ""

A diagram of a student

Description automatically generated with medium confidence