**CERTIFICATE**

The project work entitled:

**DATABASE MODEL FOR STUDENT AND LIBRARY**

**MANAGEMENT SYSTEM**

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**ABSTRACT**

The main aim of this project is to design a database model for student and library relationship management system, which can be applied in different fields of engineering management. Seventeen main entities have been used in the proposed students and library relationship management system (students, staff, courses, semester, exam result, teacher, address, student activities, classes, books, members, assets, pupils, reference, types, reservation, and libraries.)Relationships were built between these entities to connect the student and library management database system that contains tables where the entities and their properties are modeled using "Microsoft Visio".

**الخلاصة**

الهدف الرئيسي من هذا المشروع هو تصميم نموذج قاعدة بيانات لنظم إدارة الطلاب والمكتبة والذي يمكن تطبيقه في العديد من المجالات. لقد تم استخدام سبعة عشر كيانا رئيسيا في إدارة الطلاب والمكتبة (الطلاب والموظفين والدورات وفصل دراسي، ونتيجة الامتحان، والمعلم، والعنوان، والأنشطة الطلابية، والفصول، والكتب، وأعضاء، والأصول، والتلاميذ، والمراجع، أنواع، حجز والمكتبات). لقد بنيت العلاقات بين هذه الكيانات لربط قاعدة بيانات لنظام إدارة الطلاب والمكتبة والتي تحتوي على الجداول حيث يتم إدخال الكيانات وخصائصها عبر برنامج "مايكروسوفت Visio".