



University Database System

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Outline

1. Introduction
2. Project Aim
3. System Features
4. System Requirements
5. Data Tables & Diagrams
6. Conclusion



Introduction

- Over the years of our education, we have seen the same database system when it comes to registering for classes or updating personal information.
- Our goal was to create a database system to increase efficiency in having data stored and retrieved in a categorized manner



Project Aim

- To recreate a better version of a university database which is able to store information in a organized manner
- To increase efficiency in having data stored and the way data is retrieved.



System Design



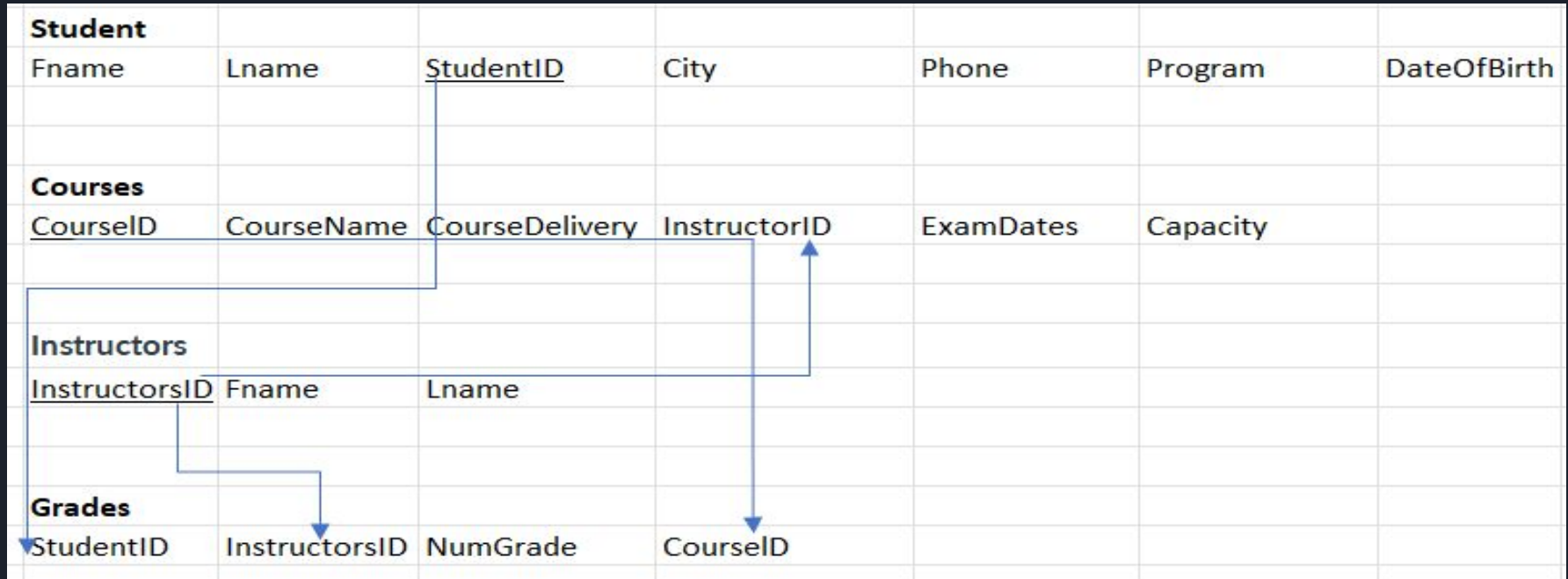
System Features

- Login and create an account page which stored into our database
- Holds and stores data for students personal information, courses, instructors information and grades
- Display tables for various different situations. Ex if student grade is under 50 percent



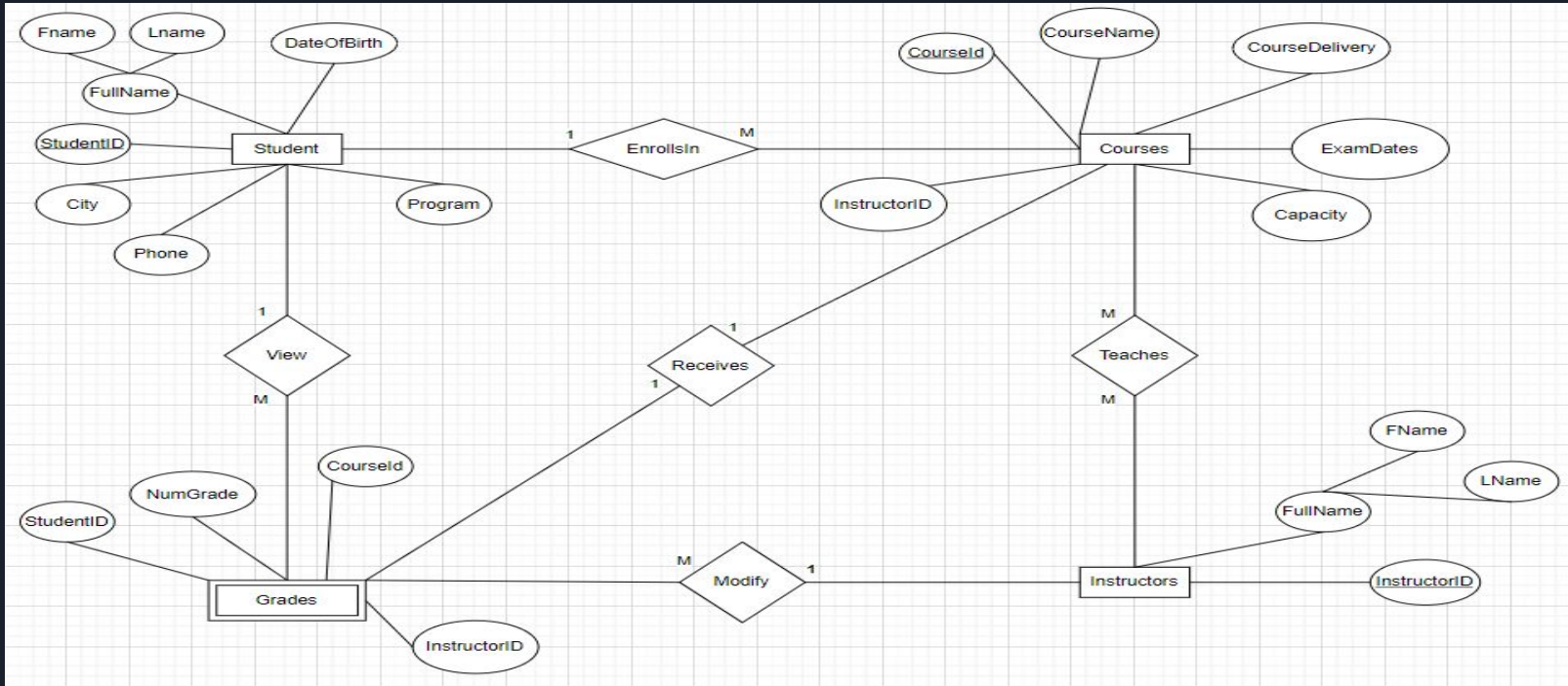
Data Tables & Diagrams

Relational Schema



Data Tables & Diagrams

ER Diagram



Data Tables & Diagrams

Sample Data

Student						
StudentID	Fname	Lname	City	Phone	DateOfBirth	Program
10001	Rayyan	Mohammed	Toronto	416-875-2145	2001-10-23	Engineering
10002	Daniyal	Khan	Toronto	647-854-7865	2001-03-26	Business
10003	Charles	Olagunju	Pickering	209-451-8765	2001-07-24	Health Science
10004	Yousif	Sarmad	Oshawa	905-324-7851	1992-01-01	Engineering
10005	Zaeem	Khalid	Oshawa	905-789-3214	1990-05-12	Business
10006	John	Doe	Mississauga	209-147-8532	1983-12-15	Nursing
Courses						
CourseID	CourseName	CourseDelivery	Capacity	ExamDates	InstructorID	
ENG3200	Intro to Engineering	In Person	140	2021-12-15	20001	
ENG3850	Engineering Economics	In Person	140	2021-12-12	20001	
BUS2840	Accounting Principles	Hybrid	200	2021-12-13	20002	
BUS1470	Intro to Business	Online	500	2021-12-09	20002	
HSCI4800	Life Science Advanced	Hybrid	200	2021-12-12	20004	
NUR1000	Nursing Principles	In Person	100	2021-12-15	20006	
HSCI1000	Intro to Life Science	Online	500	2021-12-05	20003	
NUR4000	Long Term Care	Hybrid	200	2021-12-07	20005	
Instructors						
InstructorID	Fname	Lname				
20001	Khalid	Hafeez				
20002	Usman	Aziz				
20003	Farhan	Mohammed				
20004	David	Suzuki				
20005	LeBron	James				
20006	Franklin	Torgbo				
Grades						
StudentID	CourseID	InstructorID	NumGrade			
10001	ENG3200	20001	83			
10001	ENG3850	20001	74			
10002	BUS2840	20002	91			
10002	BUS1470	20002	89			
10003	HSCI4800	20004	84			
10003	HSCI1000	20006	62			
10004	ENG3200	20001	53			
10004	ENG3850	20001	66			
10005	BUS2840	20002	41			
10005	BUS1470	20002	86			
10006	NUR1000	20006	33			
10006	NUR4000	20005	27			



University Database System Demonstration



Conclusion

- Some challenges we faced were identifying primary and foreign keys in SQL , we had some trouble making our 5 custom views
- Thus creating a database system that was efficient and reliable when storing and retrieving data was quite challenging.
- Overall we faced and overcame all challenges in our path

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QUESTIONS?

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Data Tables & Diagrams

ER Diagram

