

STUDENT MANAGEMENT SYSTEM

ER diagram and Relational schema



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INTRODUCTION

The student management system consists of a basic database model which exhibits all the properties which imply certain importance and properties that are managed for students. For the first stage of this assignment, a entity relationship model is created which defines all the properties in the form of entities and relationship that are executed for and by the students. A relational model is also shown which tells us how the entities are connected with certain attributes which are normal or primary key or a foreign key.

ENTITIES USED AND THEIR ATTRIBUTES

STUDENT			
Field	Data Type	Description	Constraints
Sid	Int	Student id number	Primary key
name	varchar	Name of the student	Not null
mother_name	varchar	Mothers name of the student	
gender	Char	Students gender	Not null
birthdate	Date	Students date of birth	Not null
bank_ac_no	Varchar	Bank account number	Default null
bank_no	Varchar	Number related to bank	Foreign key References banks(bank_no)
aadhar_no	Varchar	Aadhar number	Default null
uid_no	Varchar		Default null
contact_no	Varchar	Contact number of the student	Default null
course_id	Int	Course id of the course selected by the student	Foreign key References course(course_id)
exam_id	Int	Exam id of the student	Foreign key References exam(exam_id)

ENTITIES USED AND THEIR ATTRIBUTES

BANKS			
Field	Data Type	Description	Constraints
bank_no	Int	Bank number	Primary key
bank_name	Varchar	Name of the bank	Not null
Place	Varchar	Location of place	Not null

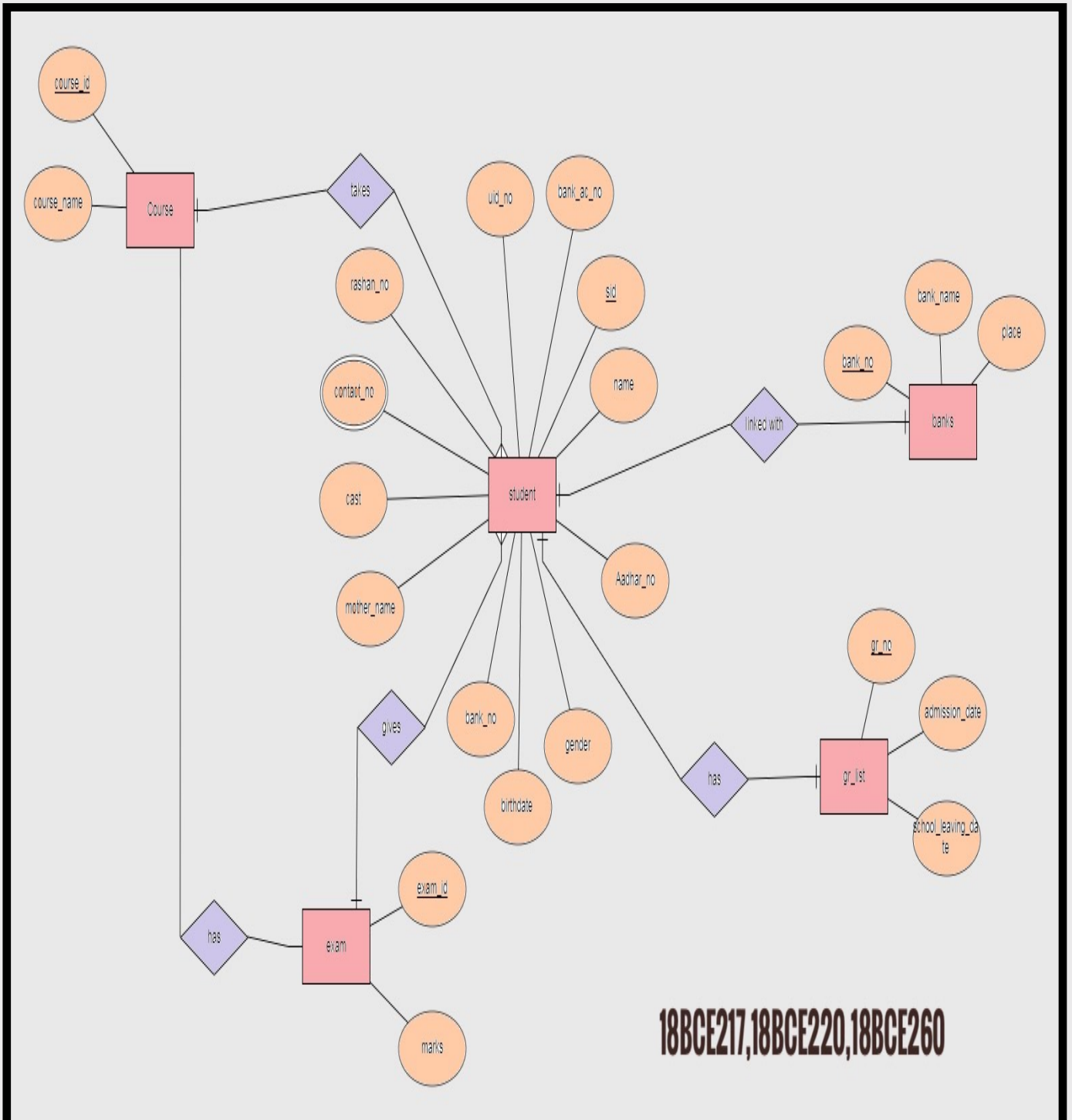
GR_LIST			
Field	Data Type	Description	Constraints
gr_no	Int	Gr number	Primary key
Sid	Int	Student id number	Foreign key References students(sid)
admission_date	Date	Date of the admission of the student	Not null
school_leaving_date	Date	Date of leaving the school of the student	Default null
Std	Int	Standard of the student	Not null

ENTITIES USED AND THEIR ATTRIBUTES

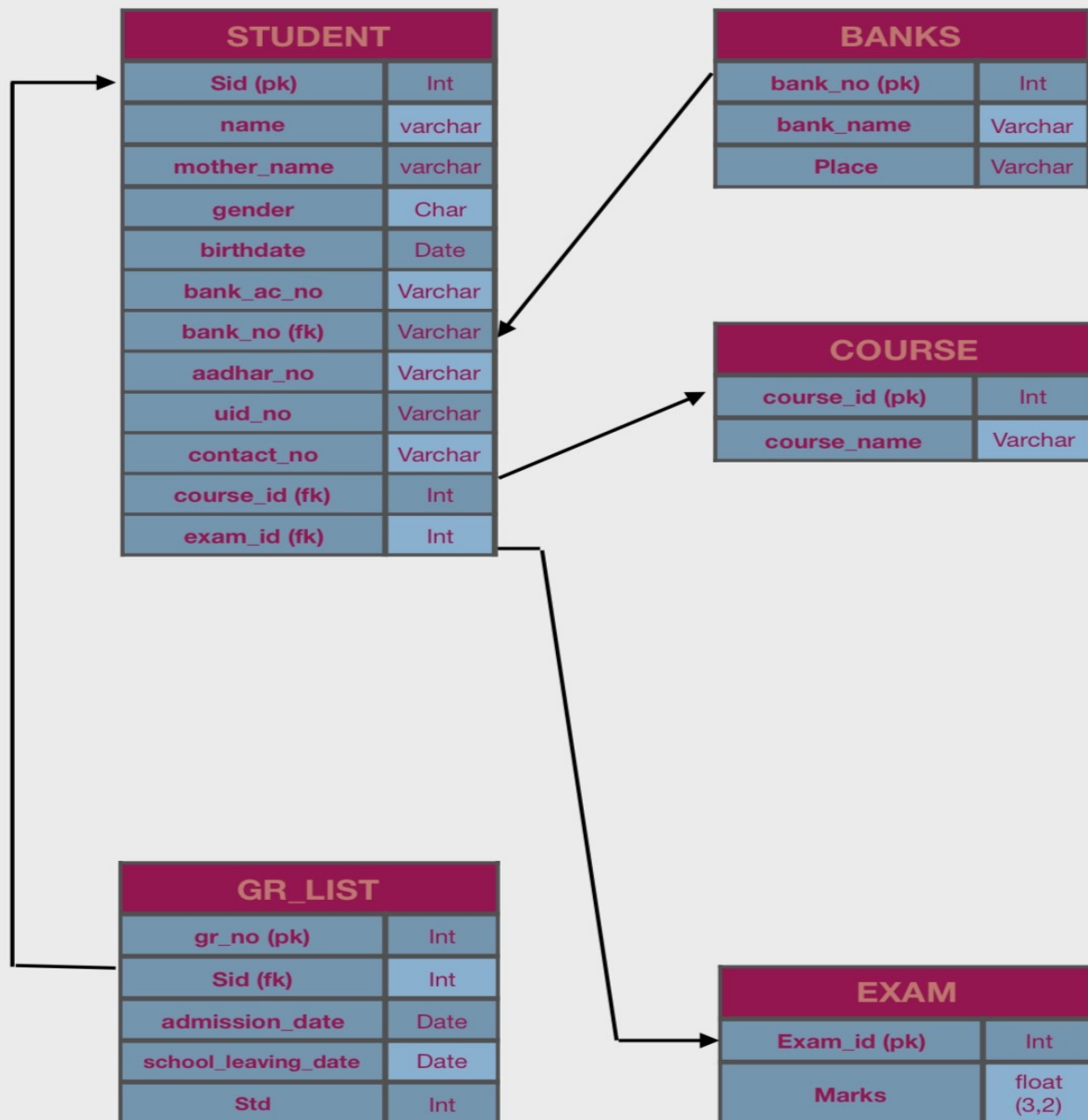
EXAM			
Field	Data Type	Description	Constraints
Exam_id	Int	Exam id	Primary key
Marks	float(3,2)	Marks obtained by student in exam	Default null

COURSE			
Field	Data Type	Description	Constraints
course_id	Int	Course id	Primary key
course_name	Varchar	Name of course offered by the school	Not null

ENTITY-RELATIONSHIP DIAGRAM



RELATIONAL SCHEMA



18BCE217,18BCE220,18BCE260