

Database model documentation

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1. Model details

Model name:

School Management System

Version:

2.4

Database engine:

MySQL

Description:

2. Tables

2.1. Table Student

2.1.1. Columns

Column name	Type	Properties	Description
student_id	int	PK	
firstname	varchar		
lastname	varchar		
parentname	varchar		
gender	varchar		
Stud_email	int		
Instructor_Instructor_ID	int		
Subjects_Subject_id	int		

2.2. Table Instructor

2.2.1. Columns

Column name	Type	Properties	Description
Instructor_ID	int	PK	
fname	varchar		
lname	varchar		
Gender	varchar		
age	int		
Ins_Email	varchar		

2.3. Table Courses

2.3.1. Columns

Column name	Type	Properties	Description
Course_id	int	PK	
Course_name	varchar		
year	int		

Course_Desc	varhcar		
Course_fee	double		

2.4. Table Transaction

2.4.1. Columns

Column name	Type	Properties	Description
Trans_ID	int	PK	
Trans_name	varchar		
trans_date	date		
Student_student_id	int		

2.5. Table Schedule

2.5.1. Columns

Column name	Type	Properties	Description
Sched_ID	int		
Day	varhcar		
Start_time_start	time		
End_time	time		
Student_student_id	int		
Courses_Course_id	int		
Instructor_Instructor_ID	int		
Subjects_Subject_id	int		

2.6. Table Subjects

2.6.1. Columns

Column name	Type	Properties	Description
Subject_id	int	PK	
name	varchar		
Courses_Course_id	int		

3. References

3.1. Reference Transaction_Student

Student	0..*	Transaction
student_id	<->	Student_student_id

3.2. Reference Schedule_Student

Student	0..*	Schedule
student_id	<->	Student_student_id

3.3. Reference Schedule_Courses

Courses	0..*	Schedule
Course_id	<->	Courses_Course_id

3.4. Reference Student_Instructor

Instructor	0..*	Student
Instructor_ID	<->	Instructor_Instructor_ID

3.5. Reference Schedule_Instructor

Instructor	0..*	Schedule
Instructor_ID	<->	Instructor_Instructor_ID

3.6. Reference Schedule_Subjects

Subjects	0..*	Schedule
Subject_id	<->	Subjects_Subject_id

3.7. Reference Subjects_Courses

Courses	0..*	Subjects
Course_id	<->	Courses_Course_id

3.8. Reference Student_Subjects

Subjects	0..*	Student
Subject_id	<->	Subjects_Subject_id