

P1 442 registrar SQL Doc

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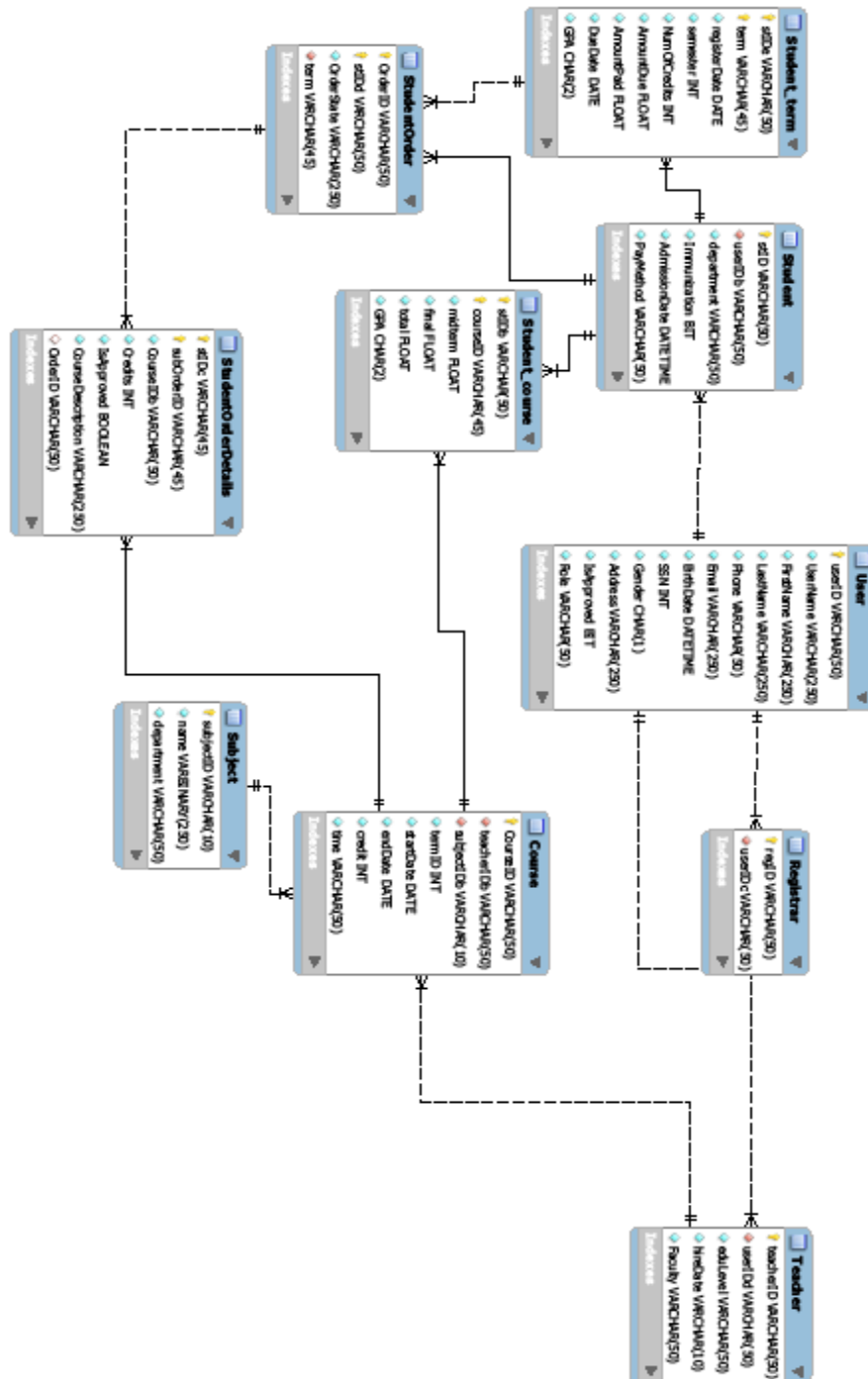
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P1 442 registrar Database Project

Name	Description
P1 442 registrar	MySQL database for Registrar Project (2)
URL	mysql://b9b915bc3dc7f9:61f0ac33@us-cdbr-east-04.cleardb.com/heroku_8ca18abb0d587c6?reconnect=true
User	b9b915bc3dc7f9
Password	61f0ac33

P1 442 registrar Database ERD/SCHEMA/TABLES

See Also: [Tables](#) & [Procedures](#)



Tables: P1 442 registrar

Tables

Name	Description
course	Contains course catalog
registrar	Contains registrar employees
student	Contains students
student_course	Contains enrolled student courses
student_term	Contains various enrolled student terms
studentorder	Contains various student orders
studentorderdetails	Contains various student order details to normalize data and break many-to-many relationship between courses and orders
subject	Contains subjects for various courses
teacher	Contains teacher employees
user	Super-class user

Table: course

Columns

Name	Type	Description
CourseID	varchar(50)	Primary key course id
teacherIDb	varchar(50)	Teacher user id
subjectIDb	varchar(10)	Subject id
termID	int	Term id (Fall/Spring or 1-or-2)
startDate	date	Course start date
endDate	date	Course end date
credit	int	Number of credits per course
time	varchar(50)	Meeting time of course

Indexes

Name	Type	Columns	Description
PRIMARY	Unique	CourseID	Primary key course id
subjectID_idx	Non-unique	subjectIDb	Join to Subject table
teacherID_idx	Non-unique	teacherIDb	Join to Teacher table

Table: registrar

Columns

Name	Type	Description
regID	varchar(50)	Primary key registrar employee id
userIDc	varchar(50)	User id

Indexes

Name	Type	Columns	Description
Registrar_User1_idx	Non-unique	userIDc	Join to User table
PRIMARY	Unique	regID	Primary key registrar employee id

Table: student

Columns

Name	Type	Description
stID	varchar(50)	Primary key student id
userIDb	varchar(50)	User id
department	varchar(50)	Dept/School
Immunization	bit	Is immunized? Yes/No or 1-or-0
AdmissionDate	datetime	Admit date
PayMethod	varchar(50)	Credit card or checking account string

Indexes

Name	Type	Columns	Description
PRIMARY	Unique	stID	Primary key student id
userID_idx	Non-unique	userIDb	Join to User table

Table: student_course

Columns

Name	Type	Description
stIDb	varchar(50)	Primary key student id
courseID	varchar(45)	Primary key course id
midterm	float	Midterm course grade
final	float	Final course grade
total	float	Total course grade
GPA	char(2)	Course GPA

Indexes

Name	Type	Columns	Description
courseID_idx	Non-unique	courseID	Join to Course table
PRIMARY	Unique	stIDb, courseID	Primary keys student id and course id

Table: student_term

Columns

Name	Type	Description
stlDe	varchar(50)	Primary key student id
term	varchar(45)	Primary key term id
registerDate	date	Registration date
semester	int	Semester (Fall/Spring or 1-or-0)
NumOfCredits	int	Total number of credits of all courses in term
AmountDue	float	Total amount of money due to school
AmountPaid	float	Total amount paid by student to school
DueDate	date	Due date of student payment
GPA	char(2)	Total GPA of term

Indexes

Name	Type	Columns	Description
PRIMARY	Unique	stlDe, term	Primary keys student id and term id

Table: studentorder

Columns

Name	Type	Description
▼ OrderID	varchar(50)	Primary key order id
▼ stIDd	varchar(50)	Primary key student id
OrderState	varchar(250)	Order state (open,closed, cancelled)
term	varchar(45)	Term

Indexes

Name	Type	Columns	Description
PRIMARY	Unique	OrderID, stIDd	Primary keys order id and student id
stID_idx	Non-unique	stIDd	Join to Student table
term_idx	Non-unique	term	Join to Student_term table

Table: studentorderdetails

Columns

Name	Type	Description
stIDc	varchar(45)	Primary key student id
subOrderID	varchar(45)	Primary Sub-order id
CourseIDb	varchar(50)	Course id
Credits	int	Total Credits of course order
IsApproved	tinyint	Is approved to enroll in course?
CourseDescription	varchar(250)	Description of course
OrderID	varchar(50)	Overall order id

Indexes

Name	Type	Columns	Description
OrderID_idx	Non-unique	OrderID	Join to StudentOrder table
PRIMARY	Unique	stIDc, subOrderID	Primary keys student id and sub-order id

Table: subject

Columns

Name	Type	Description
subjectID	varchar(10)	Subject id
name	varbinary(250)	Name of subject
department	varchar(50)	Department name where subject resides

Indexes

Name	Type	Columns	Description
PRIMARY	Unique	subjectID	Primary key subject id

Table: teacher

Columns

Name	Type	Description
teacherID	varchar(50)	Teacher id
userIDd	varchar(50)	User id
eduLevel	varchar(50)	Highest level of education
hireDate	varchar(10)	Hire date
Faculty	varchar(50)	Faculty

Indexes

Name	Type	Columns	Description
PRIMARY	Unique	teacherID	Primary key teacher id
userID_idx	Non-unique	userIDd	Join to User table

Table: user

Columns

Name	Type	Description
userID	varchar(50)	User id
UserName	varchar(250)	User name
FirstName	varchar(250)	First name
LastName	varchar(250)	Last name
Phone	varchar(50)	Phone number
Email	varchar(250)	Email address
BirthDate	datetime	DOB
SSN	int	Social security number
Gender	char(1)	Male/Female
Address	varchar(250)	Address/Residence
IsApproved	bit	IsApproved? (for use or enrollment)
Role	varchar(50)	Role

Indexes

Name	Type	Columns	Description
PRIMARY	Unique	userID	Primary key user id

Procedures: P1 442 registrar

Procedures

Name	Description
GetStudent(varchar)	Returns student info like name and address
GetStudentEnroll(varchar)	Returns student info like enrollment
GetStudentOrder(varchar)	Returns student info like order details
GetTeacher(varchar)	Returns teacher info like name and address
GetTeacherEnroll(varchar)	Returns student info like enrollment of classes taught by professor
AddStudent(varchar)	Inserts new student into database
DeleteStudent(varchar)	Deletes student from database
AddTeacher(varchar)	Inserts new teacher into database
DeleteTeacher(varchar)	Deletes teacher from database
GetCourseCatalog(varchar)	Returns list of courses
AddCourse(varchar)	Inserts new course into database
DeleteCourse(varchar)	Deletes course from database
Insert_Drop_UpdateTables	Inserts, drops or updates all tables

Procedure: GetStudent(varchar)

Parameters

Name	Type	Direction	Description
_stiD	varchar	Input	Student id

Procedure: GetStudentEnroll(varchar)

Parameters

Name	Type	Direction	Description
_stiD	varchar	Input	Student id

Procedure: GetStudentOrder(varchar)

Parameters

Name	Type	Direction	Description
_stiD	varchar	Input	Student id
_OrderID	varchar	Input	Order id

Procedure: GetTeacher(varchar)

Parameters

Name	Type	Direction	Description
_teacherID	varchar	Input	Teacher id

Procedure: GetTeacherEnroll(varchar)

Parameters

Name	Type	Direction	Description
_teacherID	varchar	Input	Teacher id

Procedure: AddStudent(varchar)

Parameters

Name	Type	Direction	Description
_stiD	varchar	Input	Student id

Procedure: DeleteStudent(varchar)

Parameters

Name	Type	Direction	Description
_stiD	varchar	Input	Student id

Procedure: AddTeacher(varchar)

Parameters

Name	Type	Direction	Description
_teacherID	varchar	Input	Teacher id

Procedure: DeleteTeacher(varchar)

Parameters

Name	Type	Direction	Description
_teacherID	varchar	Input	Teacher id

Procedure: GetCourseCatalog(varchar)

Parameters

Name	Type	Direction	Description
_regID	varchar	Input	Registrar id

Procedure: AddCourse(varchar)

Parameters

Name	Type	Direction	Description
_regID	varchar	Input	Student id
_courseID	varchar	Input	Course id

Procedure: DeleteCourse(varchar)

Parameters

Name	Type	Direction	Description
_regID	varchar	Input	Student id
_courseID	varchar	Input	Course id

Procedure: Insert_Drop_UpdateTables(varchar)

Parameters

Name	Type	Direction	Description
_tableName	varchar	Input	Table name