CEITDOMINICA PROJECT SQL CODE TRACK

Date Modified: July 30 2017

Time: 7:31PM

**Database Name: ceitdominicaregister\_dm\_db**

CREATING A USER AND SETTING ACCESS RIGHTS

Database username: ceitdbuser

Database userPassword: 4E5F9888F0BB1EC597E58BC341053660F

***Create user ceitdbuser;***

***grant all on ceitdominicaregister\_dm\_db.\* to 'ceitdbuser'@'localhost' identified by '4E5F9888F0BB1EC597E58BC341053660F';***

<!></!>

CREATE A USER AND SETTING ACCESS RIGHTS

Database username: internetUser

Database userPassword: 331A11AC61113EDDC283C5BEC8996

***Create user internetUser;***

<!>This user account will be the account that will be used directly on the website. As a result the access rights to this account has been limited to the following:

* INSERT::registeredstudents
* SELECT ::coursebatches,registeredstudents,ceiteachers(lecturer),subjectcourse
* UPDATE::registeredstudents

All of this will be done on the following tables:

1. registeredstudents
2. coursebatches
3. ceiteachers :: will only have access to the coloumn to view the information under this account
4. subjectcourse

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***grant insert on ceitdominicaregister\_dm\_db.registeredstudents to 'internetUser'@'localhost' identified by '331A11AC61113EDDC283C5BEC8996';***

***grant select on ceitdominicaregister\_dm\_db.coursebatches to 'internetUser'@'localhost';***

***grant select on ceitdominicaregister\_dm\_db.registeredstudents to 'internetUser'@'localhost';***

***grant select on ceitdominicaregister\_dm\_db.subjectcourse to ‘internetUser’@’localhost’;***

***grant select (lecturer) on ceitdominicaregister\_dm\_db.ceiteachers to ‘internetUser’@’localhost’;***

SQL STATEMENTS FOR CREATING AND SETTING UP THE TABLES FOR THE DATABASE

//revoke user permissions

***REVOKE ALL PRIVILEGES, GRANT OPTION FROM <username>@localhost;***

//Creating the database

***create database if not exists ceitdominicaregister\_dm\_db;***

//Select database

***use ceitdominicaregister\_dm\_db;***

//creating the table for coursebatches

***create table if not exists coursebatches***

***(***

***id smallint unsigned primary key not null AUTO\_INCREMENT,coursesFK smallint unsigned not null comment 'foreign key used to link the subject records from the table subjectcourses in col id',coursesStatus enum("Pending","On-Going","Closed","Cancelled") not null comment 'used to define the status of a course record',lecturerFK varchar(100) comment 'foreign key used to link the table called ceiteachers using the lecturer col',schoolYear smallint unsigned default 2000 comment 'stores the school year',startDate date,endDate date,availableCourseSeats tinyint unsigned not null default 0 comment 'used to display to the user the available seats remaining in a particular course',maxSeats tinyint unsigned not null default 30 comment 'max seat for a particular course,this can be changed but the default is 30 if there is none defined'***

***);***

//creating the table for batchschedule

***create table if not exists batchschedule***

***(***

***batchFK smallint unsigned not null comment 'foreign key used to link to the table coursebatches id',***

***timeslot tinyint unsigned default 0***

***);***

//creating the table for studentcoursebatches

***create table if not exists studentcoursebatches***

***(***

***batchesFK smallint unsigned comment 'foreign key used to link to the table coursebatches under the col id',***

***studentFK smallint unsigned comment 'foreign key used to link the table registeredstudents to the col student',***

***submitDate timestamp,***

***seated bit comment 'true or false, will store if the student was able to get a seat for a particular batch'***

***);***

//creating the table for registeredstudents

***create table if not EXISTS registeredstudents***

***(***

***student smallint unsigned primary key not null AUTO\_INCREMENT,studentName varchar(100) not null comment 'name for the registered student both first and last name',***

***studentEmail varchar(100) not null comment 'contact email for the student'***

***);***

//creating the table for subjectcourse

***create table if not exists subjectcourse***

***(***

***id smallint unsigned primary key not null AUTO\_INCREMENT comment 'id at primary key for the unique course input',***

***courseName varchar(100) not null comment '[required] name of the course',***

***courseSummary varchar(400) comment '[optional] usedd to provide additional detail about a course to the viewer'***

***);***

//creating the table for ceitteachers

***create table if not exists ceiteachers(***

***id smallint unsigned primary key not null AUTO\_INCREMENT,lecturerFN varchar(30) not null default 'foo-fname' comment 'teachers first name',lecturerLN varchar(30) not null default 'foo-fname' comment 'teachers last name',teacherGender enum("Male","Female","Unknown") not null,teacherEmail varchar(100) default '@domain.com' comment 'work contact email if available'***

***);***

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/ SQL QUERY CODE FOR /

/ PROGRAM /

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SQL QUERY STATEMENT FOR PULLING ALL THE COURSES FOR A PARTICULAR YEAR & FUTURE YEARS

int $currentSystemYear;

***select \* from coursebatches where schoolYear >= <$currentSystemYear>;***

***<!>$currentSystemYear is just a documentation reference for the data that will change constantly(variable) and does not actually in its current state depict valid mysql code.</!>***

INSERT STATEMENT TO ADD TO THE REGISTEREDSTUDENTS TABLE

<tablename> = registeredstudents

***Insert into <tablename> values(<studuentName>,<studentEmailAddress>);***

***Alter table ‘registeredstudents’ add unique(‘studentName’);***

***<!> Ensures that there are only unique values in the students names col. This will disguard the input of the same values inserted at two given times</!>***

CODE TO PULL THE VALUES FROM EACH TABLE TO SHOW THE BATCHES FOR A CURRENT YEAR

STATUS: WIP

***select coursebatches.id,coursebatches.coursesStatus,subjectcourse.courseName,subjectcourse.courseSummary,coursebatches.lecturerFK,coursebatches.schoolYear,coursebatches.startDate,coursebatches.endDate,coursebatches.availableCourseSeats,coursebatches.maxSeats from coursebatches join subjectcourse on coursebatches.coursesFK=subjectcourse.id WHERE coursebatches.schoolYear=2017;***

<!>For now denied in internetUser account</!>

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/ SAMPLE QUERY CODE FOR /

/ PROGRAM /

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## **<!>Inserting sample random data for testing into the tables</I>**

TABLE NAME: subjectcourse

***insert into subjectcourse(courseName,courseSummary) values ('English','English (About this sound listen) is a West Germanic language that was first spoken in early medieval England and is now a global lingua franca.[4][5] Named after the Angles, one of the Germanic tribes that migrated to England, it ultimately derives its name from the Anglia (Angeln) peninsula in the Baltic Sea.]'),('Science','Modern English grammar is the result of a gradual change from a typical Indo-European dependent marking pattern with a rich inflectional morphology and relatively free word order, to a mostly analytic pattern with little inflection, a fairly fixed SVO word order and a complex syntax.'),('Chinese','');***

TABLE NAME: ceiteachers

***insert into ceiteachers (lecturer,teacherGender,teacherEmail) VALUES***

***('Macaully Tavernier','Male','macaully.tavernier@aol.com'),('Dylan Bartley','Male','dylandyaln@goose.com'),('John Smith','Female',''),('Mary','Unknown',''),('Teacher','female','');***

TABLE NAME: coursebatches

***insert into coursebatches (coursesFK,coursesStatus,lecturerFK,schoolYear,startDate,endDate,availableCourseSeats,maxSeats) values (1,'on-going','Dylan Bartley',2017,'2017/08/22','2017/12/28',0,30),***

***(1,'pending','Macaully Tavernier',2017,'2017/08/22','2017/12/28',0,30),***

***(2,'pending','Macaully Tavernier',2018,'2018/08/22','2018/12/28',0,30),***

***(3,'pending','Macaully Tavernier',2017,'2017/08/22','2017/12/28',0,30);***

TABLE NAME: registeredstudents