Using MySQL and GAM to manage student accounts

https://go.eduk8.me/brainstorm19

Who am I?

https://go.eduk8.me/brainstorm19
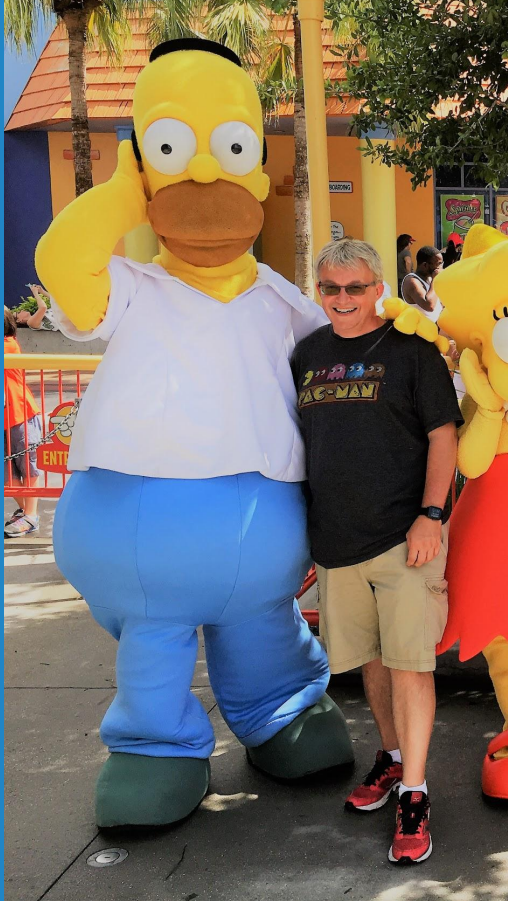
Ryan Collins

Director of Technology
Kenton City Schools

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"

Inside of every problem lies an opportunity.

Robert Kiyosaki

Managing student accounts with a database

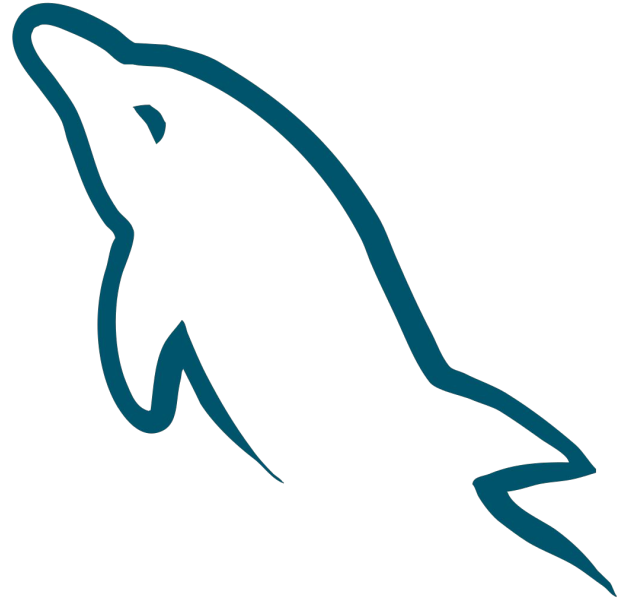Everything you need to play

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Requirements

studentschedule.csv

10 PRINT "HELLO WORLD"

Database - MySQL

Schedule file from ITC

```
PrimaryStudentID,FirstName,LastName,TeacherID,SiteID,Grade,Term,Period,CourseID,CourseName
1002,Leroy,Zhang,f0b33,HS,12,YEAR,03,14,CONSUMER MATH
1002,Leroy,Zhang,ec370,HS,12,YEAR,01,90,CBI RELATED
1002,Leroy,Zhang,ec370,HS,12,YEAR,04,99,CBI ON THE JOB
1002,Leroy,Zhang,ec370,HS,12,YEAR,06,99,CBI ON THE JOB
1002,Leroy,Zhang,ec370,HS,12,YEAR,5A,99,CBI ON THE JOB
1002,Leroy,Zhang,1f6d5,HS,12,YEAR,02,96,CBI ENG.
1003,Freida,Bevington,f0b33,HS,12,YEAR,04,14,CONSUMER MATH
1003,Freida,Bevington,ec370,HS,12,YEAR,02,90,CBI RELATED
1003,Freida,Bevington,ec370,HS,12,YEAR,5C,99,CBI ON THE JOB
1003,Freida,Bevington,7c9e9,HS,12,2SEM,03,SH,STUDY HALL
1003,Freida,Bevington,1f6d5,HS,12,YEAR,01,96,CBI ENG.
```

Database Schema

```
CREATE TABLE `studentschedule` (

  `student_id` int(11) unsigned NOT NULL,

  `first_name` varchar(64) DEFAULT NULL,

  `last_name` varchar(64) DEFAULT NULL,

  `teacher_code` char(5) DEFAULT NULL,

  `building_code` char(4) DEFAULT NULL,

  `grade` varchar(2) DEFAULT NULL,

  `term` varchar(4) DEFAULT NULL,

  `period` char(2) DEFAULT NULL,

  `class_code` varchar(12) DEFAULT NULL,

  `class_name` varchar(32) DEFAULT NULL

) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

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New students/left students

```
CREATE ALGORITHM=UNDEFINED DEFINER=`root`@`%` SQL SECURITY DEFINER VIEW
`newstudents`

AS SELECT

    distinct `studentschedule`.`student_id` AS `student_id`,

    `studentschedule`.`grade` AS `grade`,

    `studentschedule`.`first_name` AS `first_name`,

    `studentschedule`.`last_name` AS `last_name`,

    `studentschedule`.`building_code` AS `building_code`

FROM `studentschedule` where ((not(`studentschedule`.`student_id` in (select
`users`.`uid` from `users`))) or `studentschedule`.`student_id` in (select
`users`.`uid` from `users` where (`users`.`status` = 'inactive')));
```

Creating a Study Island Import

```
select uid as `SIS Primary Key`,
concat(username,"@highschool") AS `username`,
concat(upper(substr(firstname,1,1)),lower(substr(firstname,2))) AS `first name`,
concat(upper(substr(lastname,1,1)),lower(substr(lastname,2))) AS `last name`,
`password` as `password`,
31-substr(username,1,2) AS `grade`
from users where building='High School' AND type='student' AND status='Active'
```

Creating a SAM Import

```
select username as USER_NAME, password as PASSWORD, uid as SIS_ID, firstname as FIRST_NAME,

lastname as LAST_NAME,

if((31-substr(username,1,2)) = 0, 'K', (31-substr(username,1,2))) AS GRADE,

"Elementary School" AS SCHOOL_NAME, studentschedule.teacher_code AS CLASS_NAME

from studentschedule

    INNER JOIN users ON studentschedule.student_id = users.uid

Where

    users.type='student' AND users.status='Active'

AND users.building LIKE '%Elementary%'

AND ( `studentschedule`.class_name LIKE '%Lang% Arts%' OR `studentschedule`.`class_name`
LIKE '%CC-ELA 4-6%' )
```

ConnectED

csv2excel.py - quick and dirty script to make an Excel file from a .csv file

Creating a TCI Import

```
select …
CASE
        WHEN studentschedule.grade = "08" AND class_name = 'Social Studies' THEN 'MS9398'
        WHEN studentschedule.grade = "07" AND class_name = 'Social Studies' THEN 'MS2061'
        WHEN studentschedule.grade = "06" AND class_name = 'Social Studies' THEN 'MS2047'
        WHEN studentschedule.grade = "05" AND class_name = 'Science' THEN 'EL9817'
        WHEN studentschedule.grade = "05" AND class_name = 'Social Studies' THEN 'ELOH5T'
        WHEN studentschedule.grade = "04" AND class_name = 'Science' THEN 'EL9763'
        WHEN class_name = 'WORLD STUDIES' THEN 'HS9459'
        WHEN class_name = 'U.S. STUDIES' THEN 'HS0854'
    END AS program_code,
```

Date added field

```
`dateadded` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE CURRENT_TIMESTAMP,
```

End of Select statement:

```
AND dateadded > CURDATE();
```

GAM

A few quick GAM commands

gam update user USERNAME password PASSWORD

gam update user USERNAME ou "/Students/Penalty Box"

GAM and CSV

Suspend seniors:

```
gam csv seniors.csv gam update user ~username suspended on
```

seniors.csv:

```
username

19aarosunshine

19abadlinnea

19allamartina

19almafelton
```

Putting it all together

newstudents.py

createcsvimports

Thanks!

Any questions?

You can find me at:

about.ryancollins.org