Appaserver.org

Contents:

Class Grades Application Appaserver Engine Build Class Grades Application

View class grades database schema.
Define folder
Define attribute
Define primary key
Define relation
Define foreign key

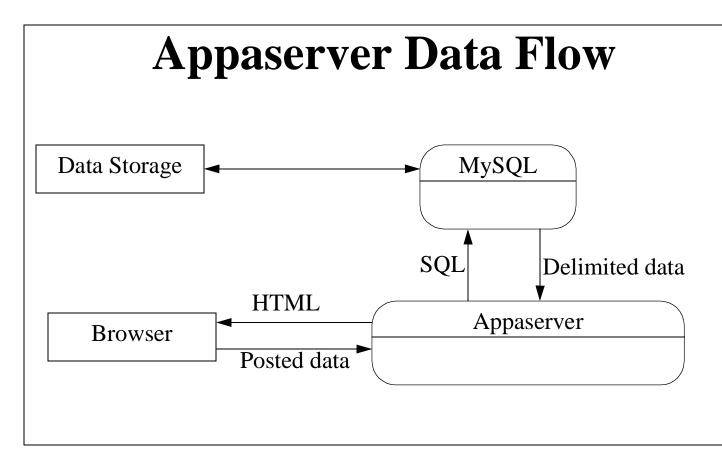
Transition: Now lets see how Appaserver can help us with the class grades application.

<Contents>

Introduction: Appaserver is used to build database applications intended to run in a browser. You do not paint or program screens; instead, you configure Appaserver.

<Class grades schema>

Transition: Let's say you've been asked to teach two sections of beginning programming at UC Davis. But maintaining the grade book is going to be a chore. So you pickup a pencil and straight-edge and come up with this database schema.



Appaserver couples MySQL to the browser.

<Appaserver ER>

<Back to screens>

Transition: Now let's build the class grades application.

Class Grades Folders

- * Seasons
- * Terms
- * Classes
- * Enrollments
- * Assignments_and_Tests
- * Grades

Table Table Prompt Prompt Prompt, Sort Prompt, Sort These are the folders needed for the application.

Class Grades Attributes

*	season	char 6
*	class_name	char 30
*	student_name_last_first_middle	char 40
*	assignment_or_test_name	char 30
*	counts_for_average_yn	char 1
*	year	integer 4
*	section	integer 2
*	personal_identification_number	integer 4
*	max_points	integer 3
*	points	integer 3
*	assignment_or_test_date	date 10, Hint

These are the attributes needed for the application.

*	Seasons
	Season
*	Terms
	Season
	Year
*	Classes
	Class_name
	Section
	Season
	Year

Primary Key 1

Primary Key 1 Primary Key 2

Primary Key 1 Primary Key 2 Primary Key 3 Primary Key 4 New we assign the attributes to the folders.

* Enrollments

Student_Name_Last_First_Middle Primary Key 1Class_NamePrimary Key 2SectionPrimary Key 3SeasonPrimary Key 4YearPrimary Key 5Personal_Identification_NumberDisplay Order 1, omit insert

* Assignments_and_Tests

Assignment_or_Test_Name Class_Name Section Season Year Assignment_or_Test_Date Max_Points Counts_For_Average_yn Primary Key 1 Primary Key 2 Primary Key 3 Primary Key 4 Primary Key 5 Display Order 1 Display Order 2 Display Order 3

* Grades

Student_Name_Last_First_MiddlePrimary Key 1			
Class_Name	Primary Key 2		
Section	Primary Key 3		
Season	Primary Key 4		
Year	Primary Key 5		
Assignment_or_Test_Name	Primary Key 6		
Points	Display Order 1		

Class Grades Relations

* Terms

- * Classes
- * Enrollments
- * Assignments_and_Tests
- * Grades
- * Grades
- * Grades

Seasons Terms Classes Classes Enrollments Assignments_and_Tests Classes (Preprompt) Next, we'll assign the relations.

Class Grades Operations

- * Seasons
- * Terms
- * Classes
- * Enrollments
- * Assignments_and_Tests
- * Grades

Delete, Detail Delete, Detail Delete, Detail Delete, Detail Delete, Detail Delete, Detail Now, we'll enter in the operations -- delete and detail.

Role Folder Permissions

- * New role = Instructor
- * Seasons
- * Terms
- * Classes
- * Enrollments
- * Assignments_and_Tests
- * Grades

Insert, Update Insert, Update Insert, Update Insert, Update Insert, Update Insert, Update Now, we'll enter in the folder permissions. First, we need to create the role 'Instructor', and then assign everyone in that role full access.

Role Operation Permissions

- * Seasons
- * Terms
- * Classes
- * Enrollments
- * Assignments_and_Tests
- * Grades

Instructor, Delete, Detail Now, we'll give instructors permission to perform the delete and detail operations.

Class Grades Processes

* Generate_Random_Pins Folder = Classes

* Average_Report Folder = Classes

Prompt = Omit_Student_Name_yn

There are two processes already written: one to generate the random pins, and another to report the grade averages.

<View the query screens>

Process Permissions

* Average_Report* Generate_Random_Pins

Instructor Instructor Now we have to give the instructor role permission to execute these processes.

Creating the Application

Now, we can create the application.

* Run process = Create Application

Class Grades Execution

Finally, we'll create a new Appaserver user and assign him or her to the instructor role.

Conclusion:

The Appaserver database schema contains many elements we didn't cover. Each one of them represents a feature.

Whether your information system needs are six folders or sixty, Appaserver can run it. The rudimentary details of inserting, updating, and deleting data while maintaining database integrity have been written -- you can assume they'll work. All you then need to program are the processes and reports that fill in the gaps.

Consider using Appaserver as your application server.