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Databases

Database: Bookstore

Change Log

12/1:

- Added change log
- Added *timestamp* field to table:orders
- Updated How to Connect to reflect new standardized connection format

How to Connect

username: universal

password: knights

From SSH:

```
mysql -u universal -p
```

From PHP on a sample SELECT statement:

```
<?php
```

```
require 'connect.php';
```

```
$variable_name = $_POST['variable_name'];
```

```
// Prepare the SELECT
```

```
$sql = "SELECT * FROM table WHERE :variable_name = value";
```

```
$stmt = $pdo->prepare($sql);
```

```
// You need a separate bindValue() for every variable you pass  
to SQL. This prevents SQL injection vulnerabilities.
```

```
$stmt->bindValue(':variable_name', $variable_name);
```

```
$result = $stmt->execute();
```

```
?>
```

Tables

Table: professors

Table holds login and information about each professor.

Column	Data Type	Description
professor_id	int	Primary key
email	varchar(255)	Professor's email. Also serves as login username.
password	varchar(255)	Encrypted password
first_name	varchar(255)	First name.
last_name	varchar(255)	Last name.

Table: admins

Table holds login and information about each admin.

Column	Data Type	Description
admin_id	int	Primary key
email	varchar(255)	Login username
password	varchar(255)	Encrypted password

Table: semesters

Table holds information about each semester.

Column	Data Type	Description
semester_id	int	Primary key
semester_name	varchar(255)	Display name of the semester

Table: courses

Table holds login and information about each course.

Column	Data Type	Description
course_id	int	Primary key
semster_id	int	Foreign key to semesters(semester_id)
professor_id	int	Foreign key to professors(professor_id)
course_name	varchar(255)	Display name of the course
course_code	varchar(255)	Contains course code and number. Ex: ENC 1101

Table: orders

Table holds foreign keys of an order.

Column	Data Type	Description
order_id	int	Primary key
course_id	int	Foreign key to courses(course_id)
professor_id	int	Foreign key to professors(professor_id)
timestamp	timestamp	DEFAULT CURRENT_TIMESTAMP. No need to insert this, automatically populated.

Table: books

Table holds information about a book in a given order.

Column	Data Type	Description
book_id	int	Primary key
order_id	int	Foreign key to orders(order_id)
book_title	varchar(255)	Book title
author	varchar(255)	Book's author
edition	varchar(255)	Edition number
publisher	varchar(255)	Publisher name
isbn	int	ISBN-9 or ISBN-13