Exercise Design and Implementation (Cont.)

3. Database Implementation (SQL)

Use the SQL (Structured Query Language) to create database tables.

An Example of MySQL Database Processing

```
shell> mysql -h mysqldev.aero.und.edu -u userid -p
 Enter password:

 Welcome to the MySQL monitor.  Commands end with ; or \g.
 Your MySQL connection id is 2140
 Server version: 5.1.73 Source distribution
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 affiliates. Other names may be trademarks of their respective owners.

 Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| wenchen            |
+--------------------+
2 rows in set (0.00 sec)


mysql> use wenchen;        -- Comment: wenchen is the instructor's database
Database changed


mysql> create table books (
    ->    title    char(128),
    ->    ISBN     char(20) primary key,
    ->    price    real );
Query OK, 0 rows affected (0.07 sec)


mysql> insert into books values (
    ->    'PHP for the World Wide Web', '0321245652', 14.29 );
Query OK, 1 row affected (0.01 sec)
```

```
mysql> insert into books values (
    ->   'Programming PHP', '1565926102', 26.39 );
Query OK, 1 row affected (0.00 sec)


mysql> select * from books;
+----------------------------+------------+-------+
| title                      | ISBN       | price |
+----------------------------+------------+-------+
| PHP for the World Wide Web | 0321245652 | 14.29 |
| Programming PHP            | 1565926102 | 26.39 |
+----------------------------+------------+-------+
2 rows in set (0.00 sec)


mysql> commit;
Query OK, 0 rows affected (0.00 sec)


mysql> exit;
Bye


shell>
```

✦Note that this database implementation is only an example and is not related to this exercise.

♣The italic text on yellow background is entered by users.

♥The wenchen is the instructor's database. The MySQL DBA should assign a different database to you.

Slide 2.2: Exercise design and implementation
Slide 2.4: Web user interface construction
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