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PHP MySQL Create and Drop Tables (Cont.)

Each table should have a primary key field, which is used to uniquely identify the rows in a table. The primary key field cannot be null because the database engine requires a value to locate the record. The following example creates, populates, and selects a table Papers by using the SQL commands:

```
CREATE TABLE Papers (
    paperID int NOT NULL AUTO_INCREMENT,
    PRIMARY KEY ( paperID ),
    title varchar( 32 ) );
INSERT INTO Papers ( title ) VALUES ( '$title' );
SELECT * FROM Papers;
```

The primary key field is often an ID number, and is often used with the `AUTO_INCREMENT` setting. [AUTO_INCREMENT](#) automatically increases the value of the field by 1 each time a new record is added.

```
<html><body>
<?php
    $host = "mysqldev.aero.und.edu";
    $conn = mysql_connect( $host, "wenchen", "passwd" );
    mysql_select_db( "wenchen", $conn );
    $action = ☐ Drop ☒ Create ☐ Insert ( $title = "PHP" )
    if ( $action == "Drop" ) {
        // Drop table Papers.
        mysql_query( "DROP TABLE Papers", $conn );
        echo "Table Papers dropped";
    }
    elseif ( $action == "Create" ) {
        // Create table Papers.
        $sql = "CREATE TABLE Papers (
            paperID int NOT NULL AUTO_INCREMENT,
            PRIMARY KEY ( paperID ),
            title varchar(32) )";
        mysql_query( $sql, $conn );
        echo "Table Papers created";
    }
}
```

```
elseif ( $action == "insert" ) {  
    // Insert paper.  
    $sql = "INSERT INTO Papers ( title ) VALUES ( '$title' )";  
    mysql_query( $sql, $conn );  
  
    // Select all papers.  
    $result = mysql_query( "SELECT * FROM Papers", $conn );  
    while( $row = mysql_fetch_array( $result ) )  
        echo $row['paperID'] . ", " . $row['title'];  
}  
mysql_close( $conn );  
?>  
</body></html>
```

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