```
for($I=0;$I < $row Count; $I++) {
           if($change Array[$I][1] != "Delete") {
                $temp = unserialize($change Array[$I][2]);
                $temp = (integer)$change Array[$I][2];
        $data Changer->processRecords($change Array[$I][1], $temp);
$data Changer->setChangeLogFile($_POST['data_File']);
$data Changer = NULL;
echo "Changes completed";
// main section
if(isset($ POST['data File'])) {
            update XML File Process();
} else if(isset($_GET['rn'])) {
            delete Process();
} else if(isset($ POST['change file'])) {
            display Process();
} else {
select File Process();
}
?>
```

JSON Backup and Recovery

What changes are needed to provide backup and recovery for JSON data instead of XML data? Actually, no changes at all. As long as the changes from the first section of this chapter are implemented, the displaychangelog program and the changes to the dog_data class will handle JSON in the same manner as XML data.

MySQL Backup and Recovery

As you might be guessing, as long as the changes from the second section of this chapter are implemented, no additional changes will be required for backup and recovery of MySQL data. However, you can take a moment to look at an alternative way of handling MySQL data.

It is a common practice to create a SQL script file to execute against a database. A script file contains all the SQL code necessary to update the database. Using this type of file will allow you to do proper INSERT, UPDATE, and DELETE SQL commands instead of only an INSERT as previously shown. The previous example required creating an INSERT command for every record in the associate array. This includes records that were not changed. This would be inefficient for medium to large databases. You only need to update the record that changed.

You can develop the scripting file from records in the associate array that have changed. You can use the change log as the script file, as the SQL script lists all changes that have been requested. It can be rerun to fix any corrupted data.