DAILY ASSESSMENT FORMAT

Date:	11 th June 2020	Name:	Sushmitha R Naik
Course:	Ki cad printed circuit board design	USN:	4al17EC090
Topic:	Add footprint search path.prepare production files	Semester & Section:	6th sem B sec
Github	Sushmitha_naik		
Repository:			



Add footprint search path:

- When creating a custom PCB footprint for a component, it is stored somewhere on your computer. In order for Design Entry CIS to find where a custom footprint is stored and associate it with a schematic component, the *library search path* must be changed so that Design Entry CIS knows where to look.
- Save your custom footprints in the symbols folder on your computer. Depending on how Cadence is installed on your computer, the full path should be similar to:
 C:\Program Files\Cadence\SPB_17.2\share\pcb\pcb_lib\symbols
 When creating a new footprint drawing, the New Drawing dialog box will show the default pathLaunch Design Entry CIS. Note the full path for the Capture.ini file shown on the Start Page (see Figure 2).
- Depending on how Cadence is installed on your computer, the full path should be similar to: C:\Cadence\SPB_Data-Silent\cdssetup\OrCAD_Capture\17.2.0\Capture.ini or, if you made a custom HOME variable:
 %HOME%\cdssetup\OrCAD_Capture\17.2.0\Capture.iniThe Capture.ini file will open in Notepad.
- Under the [Allegro Footprints] section, add the full library search path from step 1
 above if it is not already listed (see Figure 4). Note that you must increment the number
 after Dir for each path added (e.g., Dir0, Dir1, Dir2). Do not delete any existing paths
 from the list.
- You have successfully added a library search path to Design Entry CIS. If you are still not
 able to attach your custom footprints to schematic symbols, re-check the above steps
 and make sure your custom footprint name is correct.

What is a Gerber file?

• The most widely used file format for PCB manufacturing is called Gerber. When manufacturers request "Gerbers" or "Gerber files," they are referring to ASCII files that contain Gerber- formatted data.

- A Gerber file knows nothing about design rules, net connectivity, or component libraries; it
 is simply two-dimensional artwork that indicates where the manufacturing equipment will
 place copper, solder mask, or silkscreen.
- One Gerber file provides information for one PCB feature on one layer. Thus, if you have a two-layer board and each side has copper, solder mask, and silkscreen, you will need six Gerber files. You may also need a separate Gerber file to identify the board outline.
- Generating Gerber files can be somewhat complicated. The process involves various configuration details, and different manufacturers have different requirements.
- The following screen capture shows the options that you have to consider when
 generating Gerber files with DipTrac If you don't have much experience with Gerber
 generation, I suggest the following approach: First, choose a manufacturer that
 provides specific instructions on how to generate Gerber files with specific CAD tools.
 Second, use one of these CAD tools to design your board.
- If you follow the instructions carefully, you will almost certainly avoid the two potential consequences of improper. Gerber files: a delay in the manufacturing process (more likely), or a nonfunctional PCB (nowadays probably quite rare).

The drill file:

- You will also need to generate a file that indicates the position and size of every hole that will be drilled through your board, i.e., both through-holes and vias.
- This is called the NC (numeric control) drill file, you may also see "Excellon drill file". Again, the safest approach here is to follow specific instructions provided by a PCB manufacturer.

Project files vs. Manufacturing files:

If you'd prefer to avoid generating any type of manufacturing file, you can look for a PCB manufacturer that accepts your CAD software's project files. I assume that the manufacturer uses some sort of automated procedure to generate Gerbers from the project file; this is beneficial not

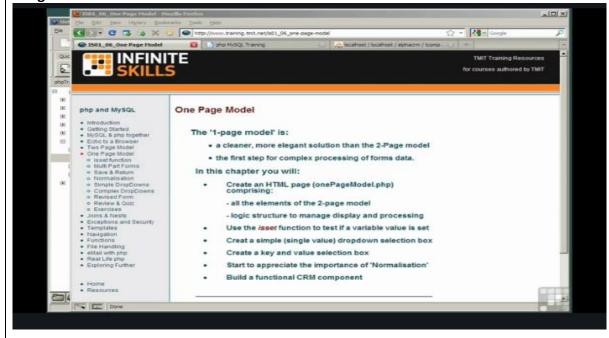
only because it saves you time but also because the fab house technicians will (presumably) know exactly how to generate files that are compatible with their equipment.					

DAILY ASSESSMENT FORMAT

Date:	11 th June 2020	Name:	Sushmitha R Naik
Course:	MySql	USN:	4al17EC090
Topic:	Insert data into MySQL.MySQL joins, inner join, right join, left join	Semester & Section:	6th sem B sec
Github Repository:	Sushmitha_naik		

AFTERNOON SESSION DETAILS

Image:



Insert Data into MySQL:

After a database and a table have been created, we can start adding data in them.

Here are some syntax rules to follow:

if (\$conn->query(\$sqI) === TRUE) {

} else {

echo "New record created successfully";

- The SQL guery must be guoted in PHP
- String values inside the SQL query must be quoted
- Numeric values must not be quoted
- The word NULL must not be quoted

The INSERT INTO statement is used to add new records to a MySQL table:

```
INSERT INTO table_name (column1, column2, column3,...)
VALUES (value1, value2, value3,...)
In this we created an empty table named "MyGuests" with five columns: "id", "firstname",
"lastname", "email" and "reg date". Now, let us fill the table with data.
The following examples add a new record to the "MyGuests" table
<?php
$servername = "localhost";
$username = "username";
$password = "password";
$dbname = "myDB";
// Create connection
$conn = new mysgli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect_error) {
die("Connection failed: " . $conn->connect_error);
}
$sql = "INSERT INTO MyGuests (firstname, lastname, email)
VALUES ('John', 'Doe', 'john@example.com')";
```

```
echo "Error: " . $sql . "<br>, $conn->error;
}
$conn->close();
?>
```

MySQL Joins:

This MySQL tutorial explains how to use MySQL JOINS (inner and outer) with syntax, visual illustrations.

Description:

MySQL JOINS are used to retrieve data from multiple tables. A MySQL JOIN is performed whenever two or more tables are joined in a SQL statement.

There are different types of MySQL joins:

- MySQL INNER JOIN (or sometimes called simple join)
- MySQL LEFT OUTER JOIN (or sometimes called LEFT JOIN)
- MySQL RIGHT OUTER JOIN (or sometimes called RIGHT JOIN)

INNER JOIN (simple join)

Chances are, you've already written a statement that uses a MySQL INNER JOIN. It is the most common type of join. MySQL INNER JOINS return all rows from multiple tables where the join condition is met.

This MySQL INNER JOIN example would return all rows from the suppliers and orders tables where there is a matching supplier id value in both the suppliers and orders tables.

Let's look at some data to explain how the INNER JOINS work:

We have a table called suppliers with two fields (supplier id and supplier name).

LEFT JOIN:

The LEFT JOIN keyword returns all records from the left table and the matched records from the right table (table2). The result is NULL from the right side, if there is no match.

LEFT JOIN Syntax

SELECT column_name(s)

FROM table1

LEFT JOIN table2					
ON table1.column_name = table2.column_name;					
RIGHT JOIN:					
The RIGHT JOIN keyword returns all records from the right table, and the matched records from the left table .The result is NULL from the left side, when there is no match.					
RIGHT JOIN Syntax					
SELECT column_name(s)					
FROM table1					
RIGHT JOIN table2					
ON table1.column_name = table2.column_name;					