University of Central Florida CGS 2545 Database Concepts

- What are Temporary Tables?
 - There are RDBMS, which support temporary tables.
 - Temporary Tables are a great feature that lets you store and process intermediate results by using the same selection, update, and join capabilities that you can use with typical SQL Server tables.

- What are Temporary Tables?
 - The temporary tables could be very useful in some cases to keep temporary data.
 - The most important thing that should be known for temporary tables is that they will be deleted when the current client session terminates.
 - Temporary tables are available in MySQL version 3.23 onwards.
 - If you use an older version of MySQL than 3.23, you can't use temporary tables, but you can use heap tables.

- What are Temporary Tables?
 - As stated earlier, temporary tables will only last as long as the session is alive.
 - If you run the code in a PHP script, the temporary table will be destroyed automatically when the script finishes executing.
 - If you are connected to the MySQL database server through the MySQL client program, then the temporary table will exist until you close the client or manually destroy the table.

- Example
 - Here is an example showing you the usage of a temporary table

```
mysql> CREATE TEMPORARY TABLE SALESSUMMARY (
   -> product_name VARCHAR(50) NOT NULL
   -> , total_sales DECIMAL(12,2) NOT NULL DEFAULT 0.00
   -> , avg_unit_price DECIMAL(7,2) NOT NULL DEFAULT 0.00
   -> , total_units_sold INT UNSIGNED NOT NULL DEFAULT 0
);
Query OK, 0 rows affected (0.00 sec)
```

- Example
 - Here is an example showing you the usage of a temporary table

- When you issue a SHOW TABLES command, then your temporary table will not be listed out in the list.
- Now, if you log out of the MySQL session and then issue a SELECT command, you will find no data available in the database.
- Even your temporary table will not be existing.

- Dropping Temporary Tables
 - By default, all the temporary tables are deleted by MySQL when your database connection gets terminated.
 - Still if you want to delete them in between, then you can do so by issuing a **DROP TABLE** command.

```
mysql> DROP TABLE SALESSUMMARY;
mysql> SELECT * FROM SALESSUMMARY;
ERROR 1146: Table 'TUTORIALS.SALESSUMMARY' doesn't exist
```