MySQL

Lecture 1

Lecture Outline

- Introduction of MySQL
- Installing XAMP
- Create DB & Tables

MySQL

- MySQL is a database system used on the web and run on a server
- MySQL is ideal for both small and large applications
- MySQL is very fast, reliable, and easy to use
- MySQL uses standard *SQL (Structured Query Language)*
- MySQL compiles on a number of platforms
- MySQL is free to use and developed, distributed, and supported by Oracle Corporation
- MySQL is named after co-founder Monty Widenius's daughter: My [pronounce it My- S-Q-L not my sequel]
- *MySQL supports large databases, up to 50 million rows or more in a table. The default file size limit for a table is 4GB*

Users of MySQL

- Facebook Wikipedia, Flickr, Google, YouTube
- *Content Management System (CMS)*: WordPress, Joomla, Drupal, TYPO3, MODx
- Large number of Web Developer across the world

MySQL Environment

- Run on **MySQL Server**

- XAMP/WAMP software provides **MySQL** server along with **Apache** server

- **Tool**: PhpMyadmin

- Default Port: 80

- **NB**: *Antivirus software, Skype also use this port. So, if server fail to run then close these apps from your computer.*

Install and Launch XAMP

- Collect/Download the file and install following the guidelines

- Start the XAMP from **desktop shortcut** or searching on **search bar**

- Now click on **admin** button from **XAMP wizard** or search **localhost/phpmyadmin** from any browser of your computer

Create Database

- Student Management System *(sms)*
- Tables
  - *departments (<u>id</u>, name, location, hod, phone)*
  - *students (<u>id</u>, name, roll, phone, address, dob, **dept_id**)*

Student

id	name	roll	phone	address	dob
1	Rakib	121	0177...45 0193...65	Rupatoli, Barishal	19 jul 1990
2	Abir	122	0167..34	Bangla Bazar, Barishal	23 jan 1993
3	Shamim	123	0189...12	Bangla Bazar, Barishal	21 Feb 1989
4	Abir	124	0155..32	Bakerganj, Barishal	22 nov 2000

Department

id	name	location	hod	phone
1	CSE	4th Floor	MMA	019...
2	Physics	3rd Floor	SR	013...
3	English	1st Floor	MAH	017....

Student

id	name	roll	phone	address	dob	department
1	Rakib	121	0177...45 0193...65	Rupatoli, Barishal	19 jul 1990	1
2	Abir	122	0167..34	Bangla Bazar, Barishal	23 jan 1993	1
3	Shamim	123	0189...12	Bangla Bazar, Barishal	21 Feb 1989	2
4	Abir	124	0155..32	Bakerganj, Barishal	22 nov 2000	3

FK-Relationship

Department

id	name	location	hod	phone
1	CSE	4th Floor	MMA	019...
2	Physics	3rd Floor	SR	013...
3	English	1st Floor	MAH	017....

Resources

- https://www.w3schools.com/sql/default.asp

- https://www.youtube.com/watch?v=mhDJYm4cLzU&list=PLTydW-y9HsbQ2ztoaLBJTd4wwjc_oqWx4&index=1&ab_channel=TrainingwithLiveProject

Any Questions??