Database Structure / Schema Designing (Fields Given)

Contest No : 1

Last Date to Submit : June 15, 2022 – 09:00 PM

Topic: College Administration Database

Data Fields Required: (30)

- Department names (UG and PG)
- Department code
- Head of the Department
- HOD Mail id
- Hod Contact no
- HOD Intercom
- HOD qualification
- HOD experience
- Teaching Faculty Names
- Teaching Faculty mail id
- Teaching Faculty Qualification
- Teaching Faculty contact no
- Teaching Faculty - Area of Expertise
- Student Names
- Student location
- Student first graduate
- Student degree (ug or pg)
- Student roll no
- Student department
- Student Year

- Student Gender
- Student Mobile no
- Student Email id
- Student Hostel / Day scholar (College bus)
- Non-Teaching Faculty Names
- Non-Teaching Faculty mail id
- Non-Teaching Faculty contact no
- Student Parents Name (Father / Mother)
- Student Parents Occupation
- Student Parents' Annual Income

Rules

 The following concepts have to be applied while designing the database

1. Autoincrement
2. Primary Key
3. Foreign key
4. Unique
5. Normalization

Any other additional concepts can also be applied and any other additional fields can be added to achieve maximum normalization.

Tools Suggested

1. Mysql
2. Xampp or Wamp Server for Local Database Installation
3. The database schema can be submitted as Mysql Dump or an excel sheet highlighting each table's primary and foreign keys. The team which submits the database schema in a neat format will be given higher preference.

Tutorial Links

Normalization: https://youtu.be/ABwD8IYByfk
1NF, 2NF, 3NF, and BCNF in Database Normalization | Studytonight
Keys: https://youtu.be/unREmbNASaI
Various Types of Keys in DBMS (tutorialspoint.com)

Server Installation:

Xampp: https://youtu.be/-f8N4FEQWyY
How to install XAMPP on Windows 10 - Pureinfotech

Wamp: https://youtu.be/XsZAPw_KyhQ

How To Install WAMP Server On Windows 10 (c-sharpcorner.com)