

TnP Cell Database

INTRODUCTION:

Database Management is the core of modern data, as handling and managing data is the key to making exponential progress in today's world. Here, the undersigned students of 2nd year :-

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We want to complete a project on the Database of TnP Cell NIT Delhi which will contain all the information regarding the placement statistics of the college and all information related to the placement field which forms an integral part in shaping the careers of the students of the institute.

CASE STUDY: Database design for TnP Cell.

AIM:

The main objective of the TnP cell is to motivate and guide students to explore the domains of various career opportunities, entrepreneurship, and enhance functional skills by providing industrial training, industry associated projects & enhance employability skills by honing aptitude skills, communication skills.

The aim of this case study is to design and develop a database for the TnP Cell which will display the main agenda of the TnP cell and the past recruiters, faculty, and research, contact information, login portal, and on top of that it will maintain the records of the placement statistics of the students of the following years.

It is very difficult to organize the statistics manually. Maintenance of all this information manually is a very complex task. The TnP Cell Database has been designed to computerize and automate the operations performed over the information about the students, professors, companies, and all other operations.

DESCRIPTION:

The TnPcell of NIT Delhi is maintaining the record of all students and staff members related to the TnP cell. In addition to that, keeping track of placement statistics of all students of the following years.

- a) TnP cell keeps all records of students name, father's name, enrollment number, email, current address, permanent address, joining year, placement year, current year, if he/she is a member of TnP cell or not, sex, birthdate, phone number.
- b) A record of the head of the TnP cell on the home page and the directors of the college.
- c) They only give access to a few students for editing and updating the data which would basically be the members of the TnP cell in the college and would be allowed to alter other information and assign them usernames, passwords.
- d) It will contain information of alumni of NIT Delhi in which they have a record of the package/CTC offered along with the basic information like the father's name.
- e) There is also a record of all companies that came for recruitment with their visiting year.
- f) In addition to this, it will also contain a help desk page where we will be providing the emails and contact details of the college for any query or information.

FUNCTIONALITIES:

- The database stores the information about the college's TnP cell, the procedure for placement reports, and past recruiters.
- It provides means to obtain the data of the different companies who have visited our college and the statistics.

- A part of the database can be used for the official website of the TnP cell NIT Delhi for information in the future.
- The database also contains information of the past recruiters and companies which have visited the college as well as the alumni.
- We Will provide a 'Login' for students and faculty to access the data and we will also be there so that people can contact us through the modes specified.

HARDWARE REQUIREMENTS:

Assuming that a typical system offers hundreds of entries. The volume of the information to be handled is thus about millions of characters. Further, the whole information has to be processed. All this suggest that the minimum hardware requirements should be:-

- Operating System: Windows 7/8/8.1/10.
- Memory (RAM): 1 GB of RAM or more required.
- Hard Disk Space: 200 MB or more of free space required.
- Processor: Intel Pentium 4 or later.
- Cache: 512KB

SOFTWARE REQUIREMENTS:

In the development of a project, the selection of an appropriate DBMS Software and a platform is of primary importance. With many software options available a developer has to consider the various features and functionalities and ease of handling the software, keeping an account of such things we decided to use the following software are required:-

- Visual Studio code for designing the front-end, the front-end has been developed by the use of HTML, CSS, and JS.

- SQL has been used as a back-end query language.
- PHP has been chosen as a scripting language.
- Web Browser (Chrome/Edge/Firefox, etc.)
- MySQL

TABLE DESCRIPTION:

Following are the tables along with constraints used in a TnP cell database.

1. ADMIN: This table consists of details about the student(s)/professors in the college who can access the portal and make changes. The information stored in this table includes username, password, full name, and enrollment number. Everyone has a unique username and password.
2. STUDENT: This table stores information about all the students studying in the college and the courses they are associated with. Each student is given an identity number. Everyone has a unique enrollment no.
3. STAFF: This table stores details of staff members of team members who are supervising the college's TnP cell.
4. RECRUIT: This table stores information about all the companies visited for on-campus recruitment in college. Every company name is unique.
5. TEAM: This table includes the information about all members of the TnP cell and students coordinators with email ids and the positions/roles in the tnp cell.

