

Task 3

DBMS

PROBLEM:

MERIT LIST DBMS SOFTWARE FOR IM Sciences

HOW AND WHY THIS PROBLEM??:

As we know that we are in phase of technology and we had improve over pen and paper work to softwares. And we know that now it became easy to someone write contents and data in ms word or any other software but there are also some issue with the file system which are as follow:

1. Data Redundancy:

- It is possible that the same information may be duplicated in different files. this leads to data redundancy results in memory wastage.

2. Data Inconsistency:

- Because of data redundancy, it is possible that data may not be in consistent state.

3. Difficulty in Accessing Data:

- Accessing data is not convenient and efficient in file processing system.

4. Limited Data Sharing:

- Data are scattered in various files. also different files may have different formats and these files may be stored in different folders may be of different departments.
- So, due to this data isolation, it is difficult to share data among different applications.

5. Integrity Problems:

- Data integrity means that the data contained in the database in both correct and consistent. for this purpose the data stored in database must satisfy correct and constraints.

6. Atomicity Problems:

- Any operation on database must be atomic.
- this means, it must happen in its **entirely** or not at all.

7. Concurrent Access Anomalies:

- Multiple users are allowed to access data simultaneously. this is for the sake of better performance and faster response.

8. Security Problems:

- Database should be accessible to users in limited way.
- Each user should be allowed to access data concerning his requirements only.

So to overcome these problem we move towards databases which can overcome all the above problems of file system and provide secure and efficient data and prevent the duplication of data enter in the database that's why I choose problem which will overcome all the above problem and it will give Efficient and secure data of student who annually apply to Institute of management Sciences Peshawar and they will be enter into the field of there choice after being in 700 student.

SUMMARY

As being student of Im Sciences Peshawar me and my team make DBMS project for Admission falls for every year in Im Sciences Peshawar .This Project is based on Students admissions for Different Department on bases of there intermediate field of study , marks score ,also the etea test and interview marks .imsciences offer 700 total of seats for admission .about above then 2500 students apply annually to imsciences and top 700 students are selected after qualifying the above requirements and in every department top 1 and 2 students are given partial scholarship (half semester fee).

Alternative: there is possibilities of student who got admissions in other government universities so they spend one or two week in Im Sciences and then go to there desire university in this case first one or two week spend in Im Sciences fee refundable and student next to them in merit list in above 700 student call for admission.

Object: Student.

Purpose : Annual Admissions .

Requirements: Student data → NAME ,FAMILY ,ADDRESS,COLLEGE,MARKS F.A F.SC TEST , INTERVIEW MARKS e.t.c .

MAX SEATS:

700

FRONT END: As we had studied java two semester so it will easy to me to make front end in **java**.

BACK END: AS OUR Lab teacher teaches us mysql so backend will be in the **mysql**.

Practical Implementation:

I will make the front end in java in which I will use jframe and swing library of java the front end will consist of window having administration password and name after validation it will open the entry window where data related to student will be put as mention in above requirements the constraints and formulas of my sql will applied in the back end which will manipulated the data and result will be stored in the data base .

Benefits:

- Easy to use
- Easy to change
- Easy to access
- Secure
- Easy backup and Recovery .

