Cours OMGL 3
DUT 1 Info, ESP-UCAD

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2013-2014

Table des matières

Chapitre 1

Introduction

1.1 Projet 2 –

Il est demandé de faire une comparaison entre les deux solutions suivantes :
— gestion des données avec SGBD et application
— gestion des données avec fichier plat et application.
Vous pouvez inclure les points suivants dans cette comparaison :

1. Redondance

2. Indépendance enter les données et les traitements.

3. Nature multi-utilisateur ou non

1.2 Projet 3 –

Considérons la solutions basée sur les quatre fichiers dans l'exercice sur la gestion d'une bibliothèque. Traiter les questions suivantes :

1. Donner le GDF en incluant un attribut Id_Abonné

2. Donner le MCD correspondant

3. Donner le MLD correspondant

4. Donner les requêtes de création des tables

5. Donner les requêtes d'insertion des données

1.3   Annexe –

File Management	Database Management
Small systems Relatively cheap Few files	Large systems Relatively expensive Many files
Files are files	Files are tables
Simple structure	Complex structure
Redundant data Chances of inconsistency Isolated data	Reduced redundancy Fairly consistence Shared data
Little preliminary design	Vast preliminary design
No security	Rigorous security
Simple, primitive backup/ recovery	Complex and sophisticated backup/ recovery
Often single user	Multiple user
Integrity left to application programmer	Rigorous inbuilt integrity checking

Fig.1   Difference between File and Db management

[https://cselectures.blogspot.com/]

3

DBMS

V E R S U S

FILE MANAGEMENT SYSTEM

2 KEY DIFFERENCES

DBMS is a system software for creating and managing databases that provides a systematic way to create, retrieve, update and manage data.

A file management system is a software that manages data files in a computer system.

Data redundancy is lower in a DBMS.

Data redundancy is higher in a file management system.

Click here to go to main differences

Visit www.differencebetween.com

Bases	DBMS	Flat file system
Definition	DBMS is a collection of interrelated data and software programs to access those data.	Flat file system stores data in a plain text file. Here, the records are specified in a single line.
Data redundancy	There is no problem of data redundancy.	There is main problem of data redundancy.
Cost	DBMS software are very costly and also regular update makes it costly.	Flat file are cost effective.
Use	Mostly, large organizations use DBMS who can afford it and have a large number of client and employees to be managed.	Small organizations use it as it is cost effective and who have to deal with small number of clients and employees.
Views	Views are created and an employees can't see all information available, hence there is security.	Any information can be seen by anyone, hence there is no security.

DBMS VS Flat file system

Chapitre 2

Fin de document