University Data Base



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This small book goal is to define this database objects   
& to present how it works?

It's also useful as a record for a database with a lot of users and triggers and log tables ...

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Catalog

1.[Intorduction](#Introduction)

[a. Programs used.](#Programs)  
 [b. About the databases.](#Aboutthedatabases)  
 c. About the university.  
 d. Resources.

2.The plan(map)

a. Analyzing the system.  
 b. Drawing ERD.  
 c. Refinement.

3.DDL & PL\SQL(PLgpSQL)

a. Tables.  
 b. Log Tables.  
 c. Triggers.  
 d. Procedures.  
 c. Views.  
 e. Sequences.  
 f. Users.  
 g. Roles.

4.DML (last overview)

5.About

**1.Introduction**

First of all, we have to give all thanks for our god then our teachers who raise us for like this level of education & awareness ...

**a. Programs used: -**

This is a database so of course you need to use DBMS[[1]](#footnote-1)  
we used Oracle OracleXE112 (as our teachers promote)

& We used Visio2016 to draw the ERD

Just those 2 programs in windows 10 operation system …

**b. About this database: -**

Storing: This database is a complete university database and it has on its schema more than 30 table with more than 200 attributes(200value) & of course its storing (not Exactly) everything in university education, employment & even building and items inside each room

Tracking: This database also tracking the user actions to by Triggers and log files which write every inserting, updating, deleting process the users do!

Authorizing: This database has its own users and every user has its own privileges to do his own actions in his own tables and views so there is no student can delete or update or even know any information from other tables …

**c. About the university: -**

we should declare what kind of universities can use this data base because of each university there are some particular objects it wants to save and it has its own policies so we cannot put our policies in the data base and impose it for every university want to use this data base

what kind of policies can this data base contain?

Of course, there is a role for every person who use this data base and you can even create another role to give all cases the ability to work without changing or even see what do others do …

For example, it’s a bad idea to give each student the ability to find other student's marks in their own exams and courses, as a solution for that we make a view which changes from student to other to give the ability for each student to see his/her own mark and he can't also change it for in his user in the data base.

How many students can this data base hold?

This database is made to hold around 20,000 students (10k for each sex) and another 10k for employees, but if it's not enough you can easily put another zero for each sequence of them so it can hold as much as you need but it's important to make sure that your storage can hold all these information you need a server as I guess …

2.The plan(map)

1. Data base Management System [↑](#footnote-ref-1)