



Relational Database Concepts

Examples Of Databases

PRESENTED BY IMGARD EKOKOBE



Objectives

- Learn the role of databases in an organization.
- Basic terminology of databases
- Examples of databases
- Characteristics of databases
- Learn the importance of non procedural access
- Transaction processing

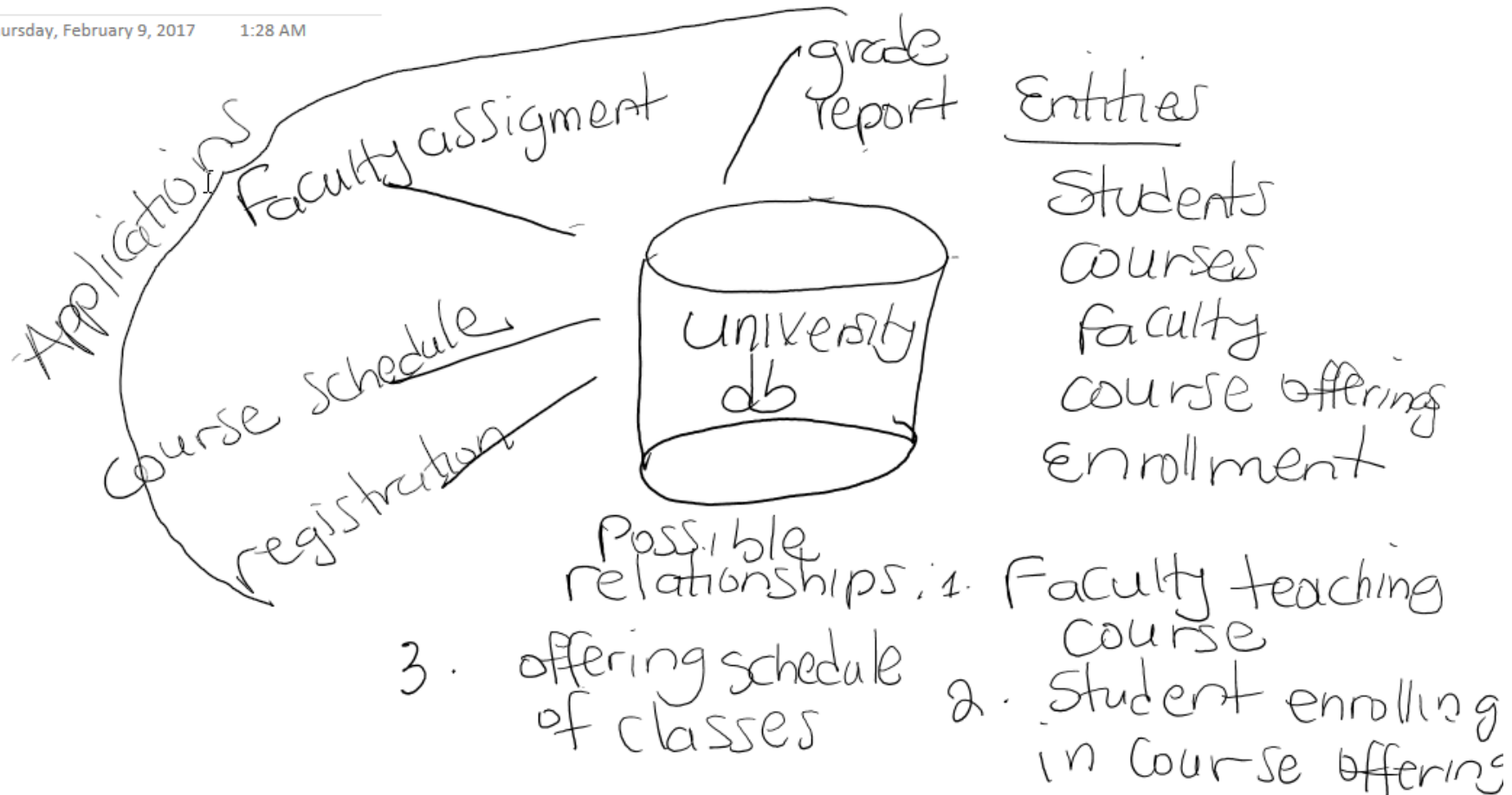


University Database Example

- The university database stores data about students, faculty, courses, course offerings, and enrollments.
- Supports procedures such as registering for classes, assigning faculty to course offerings, recording grades, and scheduling course offerings.
- Relationships in the university database support answers to questions such as
 - What offerings are available for a course in a given academic period?
 - Who is the instructor for an offering of a course?
 - What students are enrolled in an offering of a course?

University Database Example

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Water Utility Database Example

- This database stores details about customers, bills, payments, and meter readings on reliable disks for repetitive and long term use.
- The database also maintains important relationships, such as payments made by customers, meters read by employees and bills sent to customers.
- The water utility database supports vital functions for water usage. Including starting and stopping service at a residence or business, billing, reading meters, and processing payments.



Water Utility Database Example

Relationships in the water utility exists such as :

- Bills sent to customers
- Customers make payments
- Customers user meters

As you can see there is a relationship between the Bills and customer table, customers and payments tables, customer and meters table.

Water Utility Database

