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BIBLIOTECA LETTURAOK

PARTE 1

La biblioteca LETTURAOK chiede di sviluppare un sistema in grado di gestire le problematiche interne:

[Scaletta] come organizzereste la fase di analisi e raccolta requisiti? (interviste?, questionari? Focus Group? Idee vostre? Osservazioni sul campo.)

Su un documento testo, descrivere il lavoro in maniera dettagliata (domande/risposte dei questionari, domande delle interviste individuali o di gruppo, analisi della concorrenza, ...).

In order to manage the main objective of the library, I strongly believe is important to define the stakeholders as follows:

Stakeholders

- Library manager
- Front Desk Clerk
- Archivist
- Client (Library User)

Objective:

Ok Library wants to develop a system that manages its operations in a more efficient manner, increasing the speed of check-out books and reduce the late or no return of check-out books

Project development:

Data Analysis Project Ok Library

Data Analyst: Jaime Andres Diaz Crosthwait

Client/Sponsor: Ok Library

Purpose:

Ok Library wants to improve its operations within a system.

Ok library is an SME company.

Scope / Major Project Activities:

Activity	Description
Non-directive interview	To the library Manager in order to understand the situation or problem
Directive Interview	To the direct stakeholders of the library already stated previously
Focus Group	Within the different roles of the library

Deliverables:

Deliverable	Description/ Details
Questionary for Structured Interviews	Write down a document defining the many questions to develop the structured interview
Focus Group	Define the questions and date of the focus group meeting
Terminology	Define the glossary
ETL	Extract, Transform and load the data to the Data Lake or Data Warehouse

BPMN Diagram	Business Process Modeling Notation to the book loan process
GAP Analysis	Gap Analysis to find the root cause of the problem five why's
Business Intelligence	BI on the library sector to compare or get to know the best practices.
RDBM	Propose a relational Database

Major Milestones:

Milestone
Questionaries
Focus Group Meeting
ETL
Final Proposal to the Librarian Manager

Structured Questionary

*Library Manager

1.) In your own words please describe the problem
2.) How or in which way you want to improve the library operations?
3.) How many employees are within the library?
4.) Does the library count or any ERP system already functioning here?
5.) If so, is the software an open-source system?

*Front Desk Clerk

1. Are the books inventory stored in a system?
2. Does the library have a user's database?
3. For how long a user can keep the book for consultation?
4. Whitin the library loan processes or policies how do you manage the users data?
5. What's the process for a user to register on the library?

*Book Archivist

1. How are the books inventory sort?
    a. Name?
    b. Artist?
    c. By publishing house?
    d. By genre?
    e. Others?
2. If a database exists for the books inventory is there any metadata for consultation?
3. Does the users returns the book on time? KPI's?

*User (Client)

1. Do you find the book acquisition process convenient?
2. Are you able to deliver the books back on time?
3. If not, why are you unable to deliver the books on time?
4. What would be the best scenario for the library to improve the book acquisitions?

Focus Group

-   For the focus group phase, is essential that the whole parts involved attend the activity. In this activity each part should state the different obstacles or issues facing in their very own area.
-   Perform a "brainstorming activity" and narrow down each one of these, to find possible solutions that will help the library to achieve the main objective or resolute the many problems that faces the library.

Terminology

ISBN(Primary Key)	AUTHOR	TITLE	PUBLISHER	DATE	ON LOAN	DUE
067589741	Shakespeare	Hamlet	Planeta	1601	Yes	2 days
058986347	Garcia Marquez	100 years of S	Black Sheep	1992	Available	
023159621	Ernesto Sabato	The Tunnel	Norma	1995	Yes	5 days
089645387	P.Suskin	The Perfum	Books NX	1984	Available	

ISBN: As primary key, international standards book number, structured Data (as Integer)

Author: Name of the author, (as String)

Title: Book Title, (as string)

Publisher: Publisher name, (as string)

Date: Date of book title, (as date)

On Loan: To simply identify if book available, (as Boolean).

Due: Days remaining for delivery.

Client: External to the company, holds an identification membership card once the membership completed provide some of his data to the library.

Long term loan: Book takeaway outside the library for many days for client consultation

Short term loan: Consultation of one or more books inside or outside the facility. For internal consultation only on Library Schedule

Book: A printed work consisting of pages, a recording information in the form of writing or images.

RDBM
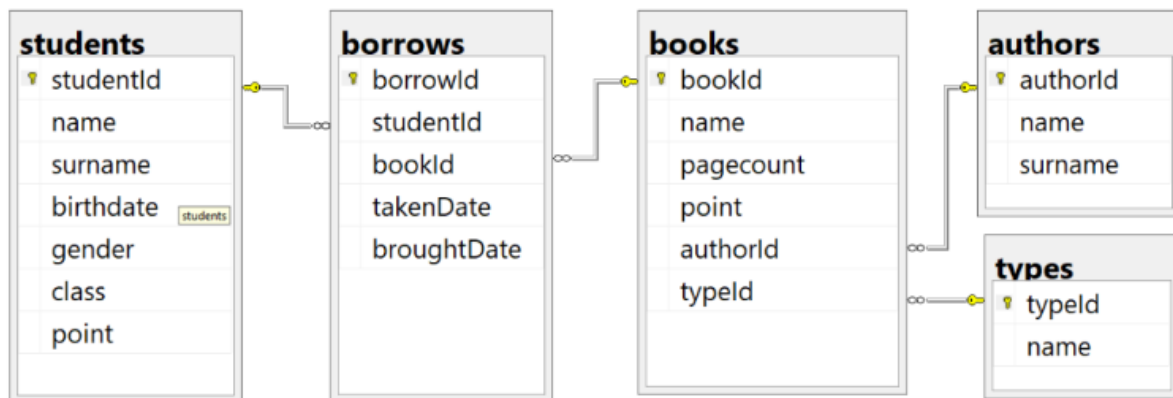
*queryexample.com

Proposal

- Construct a relational database between the different departments of the library.
- Construct a relational database for the book inventory and the user's information.
- For the users who enroll on the library, or the current ones develop a database system that contains basic information such as: name, email address, phone number and address.
- Develop a notification system to track the books already on loan and notify the user the approximate delivery date.
- Analyze the borrows data to propose a delivery schedule to achieve efficiency for both parts in this case the library and the user.
- Manual of best practices for data administration especially for data anonymization.