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Database management system| Music store

MUSIC STORE DATABSE

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ABSTRACT

This document presents the issues of the database project entitled ’Music store’. Its aim is to formally describe the phases of the design and development. These phases are categorized into 3 main steps: Database, Application and Graphic User Interface. The platform is a SQL database with JDBC support. Application and the GUI are developed in Java using JDBC. The result is a database which enables the clerks and the manager of the Music store to manage the information of customer, artists, albums,language,ratings.

SECENARIO

Presenting test scenario which will test and explain the usage of the database. These scenarios are chosen to create a real world situation.

### Test scenario 1: A new customer visits the Music store. S/he asks for the price and availability of the album ‘LOVE’ by ‘PSY (artist)’ in SPANISH language.

Most often we assume that sorting words in a language is as simple as sorting them letter by letter, according to the order of letters in the alphabet.

### Employee Approach

### To search the album name ‘’LOVE”, album language ‘SPANISH’ from album table and singer ‘PSY (artist)’ from artist table by joining two tables.

### It will show number of albums sung by artist PSY in SPANISH language.

### SOLUTION

### We can design the ER model in certain way that album can be searched by languages.

### In an album table one can add a column of album\_ language with data type VARCHAR.

### Next step is to join the album table with the artist table. So that one can get data of album by languages sorted by artist name, album name and language.

### Simultaneously we can use a store procedure to insert the details of album table which includes all the details of album followed language.

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**Test scenario 2:** If a customer asks for album which is rated as highest, average or lowest amongst all the albums.

### Employee Approach

### To search all the albums whose rating is either highest or lowest.

### Hence it will come up with the information as required.

### SOLUTION

### While constructing tables in ER model we can add an extra column in album table named rating and data type INT.

### By joining the table with artist table one can get information of highest/lowest album by album name, artist name with their ratings.

TOOLS USED

1. MYSQL Workbench

* We have used MYSQL Workbench for creating model file (i.e EER diagram) , Script file(i.e. Script uses to create database) , store procedure used to create INSERT queries.

1. MS Excel

* We have used MS EXCEL for tracking the time sheet which gives exact work information of task status.

1. MS Word

* We have created the whole documentation in MS WORD.