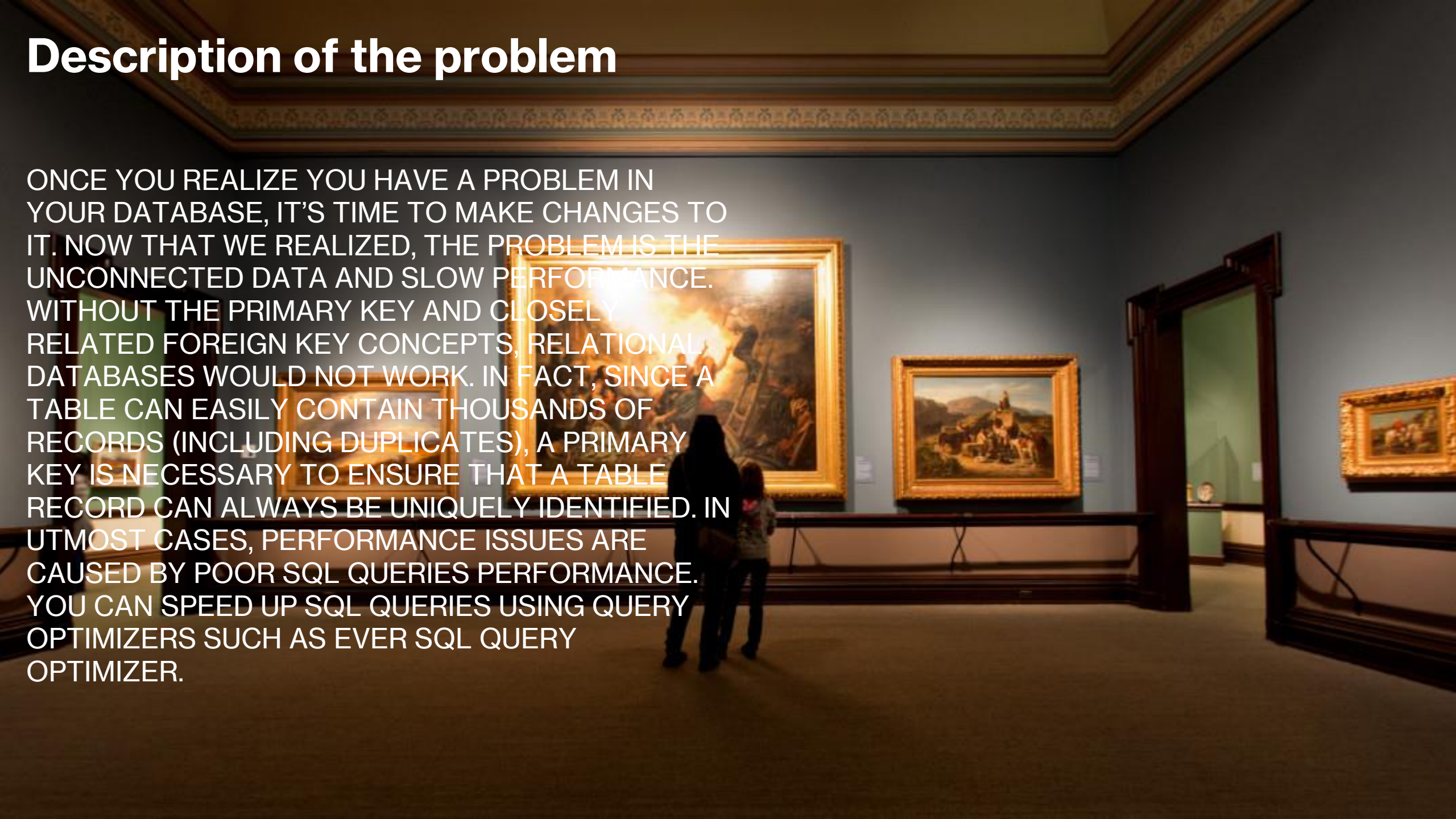# Art Gallery Management

ساري البلوي   محمد يار   بسام الغامدي
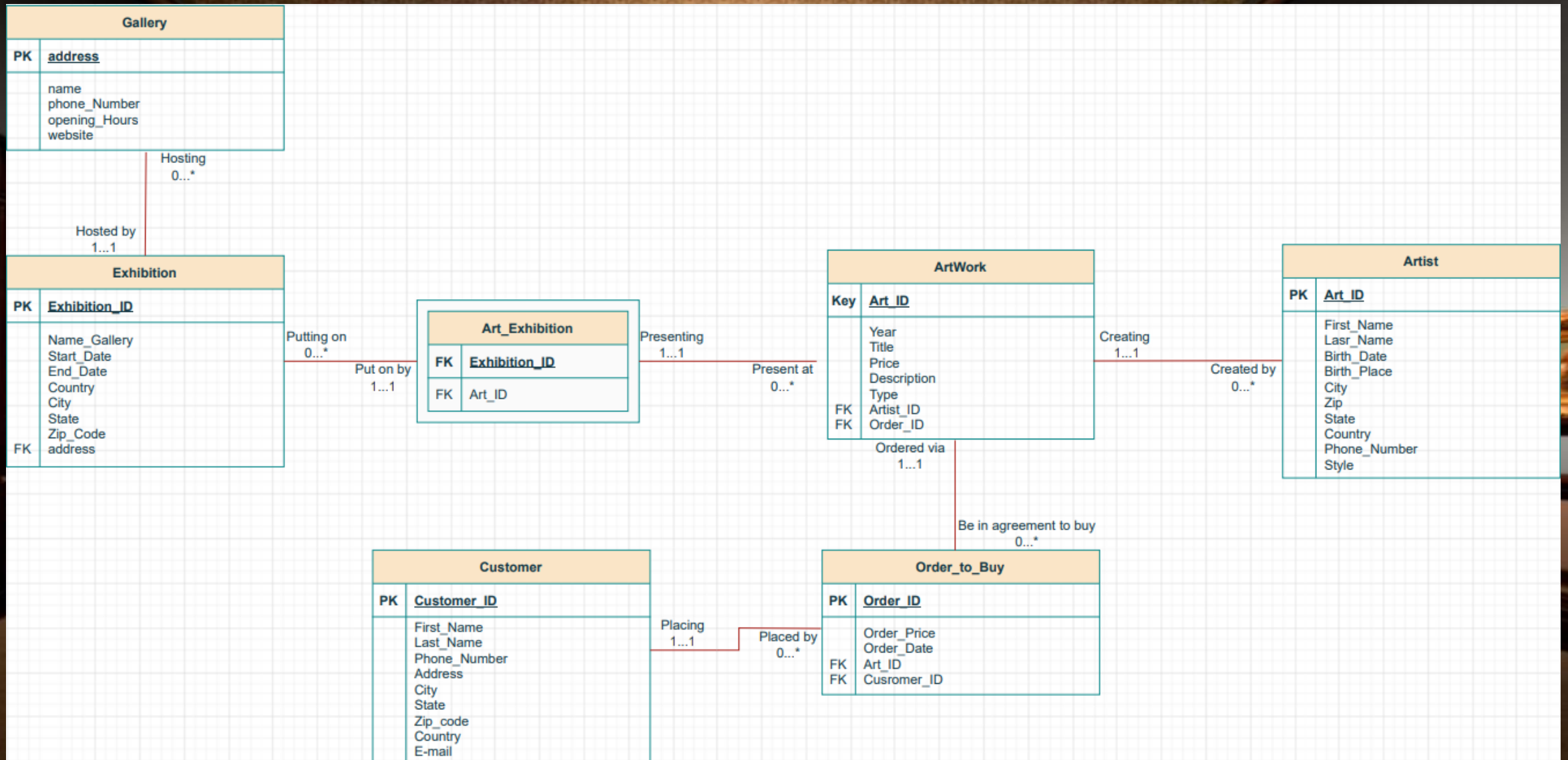
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Description of the problem

ONCE YOU REALIZE YOU HAVE A PROBLEM IN
YOUR DATABASE, IT'S TIME TO MAKE CHANGES TO
IT. NOW THAT WE REALIZED, THE PROBLEM IS THE
UNCONNECTED DATA AND SLOW PERFORMANCE.
WITHOUT THE PRIMARY KEY AND CLOSELY
RELATED FOREIGN KEY CONCEPTS, RELATIONAL
DATABASES WOULD NOT WORK. IN FACT, SINCE A
TABLE CAN EASILY CONTAIN THOUSANDS OF
RECORDS (INCLUDING DUPLICATES), A PRIMARY
KEY IS NECESSARY TO ENSURE THAT A TABLE
RECORD CAN ALWAYS BE UNIQUELY IDENTIFIED. IN
UTMOST CASES, PERFORMANCE ISSUES ARE
CAUSED BY POOR SQL QUERIES PERFORMANCE.
YOU CAN SPEED UP SQL QUERIES USING QUERY
OPTIMIZERS SUCH AS EVER SQL QUERY
OPTIMIZER.

ER Model

Schema

Gallery

address	name	Phone_Number	Opening_Hours	website

Exhibition

Exhibition_ID	Name_Gallery	Start_Date	End_Date	Country	City	State	Zip_Code	address

Art_Exhibition

Exhibition_ID	Art_ID

ArtWork

Art_ID	Year	Title	Price	Description	Type	Artist_ID	Order_ID

Artist

Artist_ID	First_Name	Lasr_Name	Birth_Date	Birth_Place	City	Zip	State	Country	Phone_Number	Style

Order_to_Buy

Order_ID	Order_Price	Order_Date	Art_ID	Customer_ID

Customer

Customer_ID	First_Name	Last_Name	Phone_Number	Address	City	State	Zip_Code	Country	E-mail