DBS MANAGEMENT

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PROBLEM ANALYSIS

OBJETIVES

AGENDA

SOLUTION PROPOSALS

FINISH LINE

PROBLEM ANALYSYS OUR METODOLOGY

PROBLEM ANALYSYS

OUR METODOLOGY



INTRODUCTION

INITIALLY, THE
RESTAURANT WANTS TO
MIGRATE MANUALLY TO
DIGITAL. TO CARRY OUT
THIS REQUEST, WE MUST
CREATE A DATABASE TO
OPTIMIZE THE
PROCESSING AND
MANAGEMENT OF THE
COMPANY.

THIS PROJECT AIMS TO DESIGN AND DEVELOP A DATABASE THAT OPTIMIZES AND STREAMLINES THE MANAGEMENT OF A RESTAURANT. THE DATABASE WILL ENABLE THE RECORDING OF ORDERS, CONTROL OF INVENTORY OF PRODUCTS (DISHES AND BEVERAGES), AND MANAGEMENT OF RESTAURANT STAFF (WAITERS, COOKS, AND ADMINISTRATIVE PERSONNEL).

PROBLEM ANALYSYS

OUR METODOLOGY

BENEFITS OF IMPLEMENTING THIS PROJECT

- TANGIBLE BENEFITS: REDUCTION OF ERRORS IN ORDERS, BETTER INVENTORY CONTROL, OPTIMIZATION OF PERSONNEL MANAGEMENT AND AVAILABILITY OF DATA FOR ANALYSIS AND REPORTS.
- INTANGIBLE BENEFITS: IMPROVED
 RESTAURANT REPUTATION, GREATER
 CUSTOMER SATISFACTION AND A MORE
 EFFICIENT WORK ENVIRONMENT FOR
 STAFF.



2 — OBJETIVES

OBJETIVES

OPTIMIZE COMMAND MANAGEMENT

Record and track the status of customer orders efficiently.

INVENTORY CONTROL

Monitor inventory of ingredients, dishes and beverages to ensure availability and reduce waste.

PERSONNEL MANAGEMENT

Maintain detailed records of employees, their roles and schedules.

PERFORMANCE EVALUATION

Facilitate the objective evaluation of employee performance.

3- SOLUTION PROPOSALS

The proposal is based on the segmentation of the project

At first

WE PERFORM THE REQUIREMENTS
ANALYSIS WHERE THE
REQUIREMENTS OF THE DATABASE
SYSTEM ARE IDENTIFIED AND
DOCUMENTED.

SOLUTION PROPOSALS

At Second

THE NEXT PHASE IS THE DESIGN
OF THE DATABASE, WHICH IS
BASED ON THE ENTITYRELATIONSHIP MODEL, THE
RELATIONAL MODEL AND THE
PHYSICAL RELATIONAL MODEL.

Finally

WE PROCEED TO THE
IMPLEMENTATION OF
DEVELOPMENT, WHICH MAY
INCLUDE THE CREATION OF
TABLES, VIEWS, STORED
PROCEDURES, TRIGGERS AND
OTHER DATABASE OBJECTS, AS
WELL AS THE DEVELOPMENT OF
USER INTERFACES.

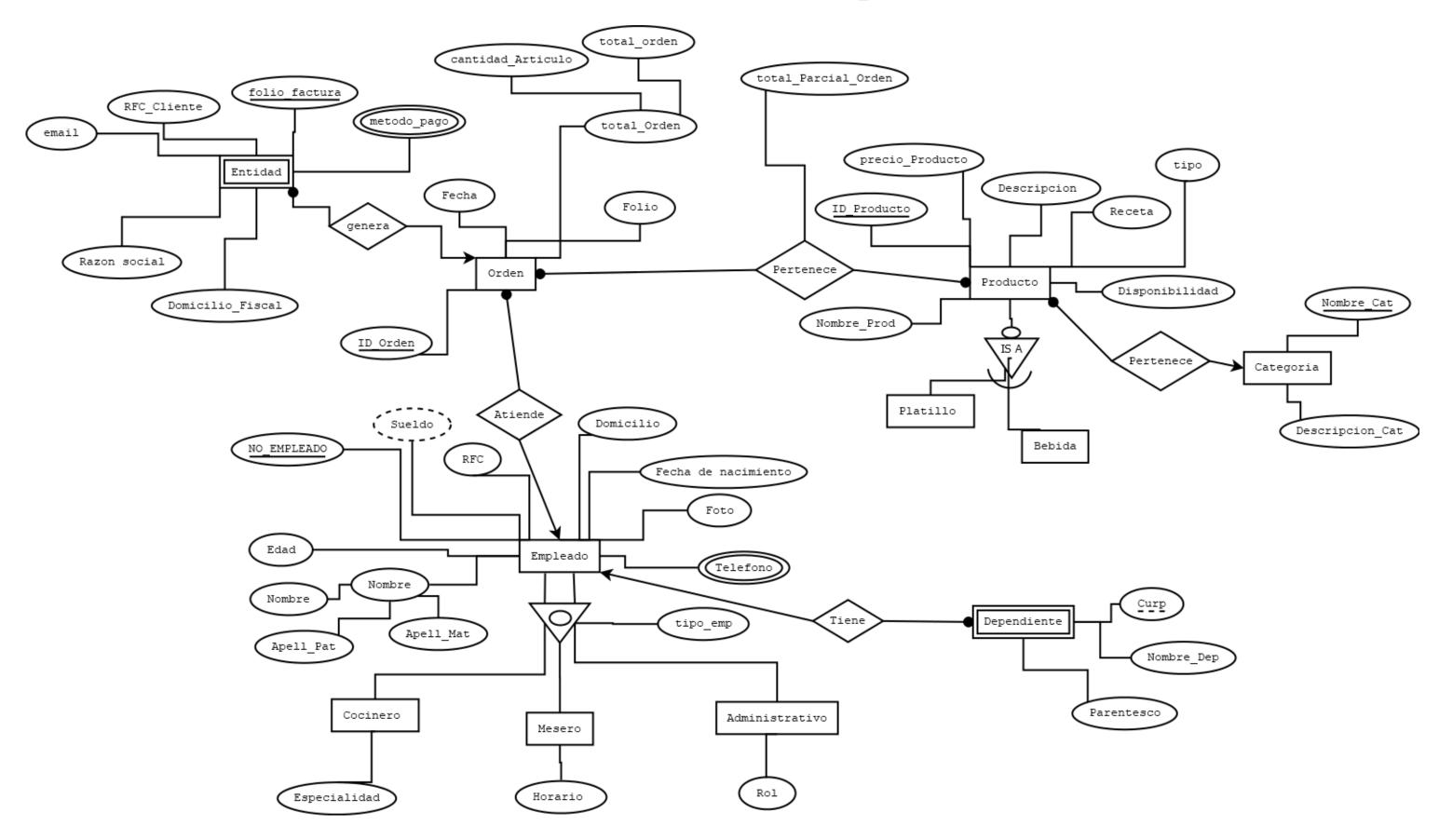
SOLUTION PROPOSALS

DATABASE DESIGN

ABOUT THE DATABASE MODEL...

AND IS DESIGNED TO STORE AND MANAGE ALL THE INFORMATION NECESSARY FOR THE EFFICIENT OPERATION OF THE RESTAURANT. THE MAIN TABLES AND THEIR RELATIONSHIPS ARE DETAILED BELOW.

Entity-Relationship Model



Relational Model

Empleado{No_Empleado Smallint [PK], RFC Char (13) [UQ], Edad Smallint, Nombre Varchar (100), Sueldo Numeric (8,2), Ap_Pat Varchar (100), Ap_Mat Varchar (100) Null, Domicilio Text, F_Nacimineto Date, Foto Bytea, Tipo_Emp Char (1)}

Telefonos (Telefono Char (10) [PK], No_Empleado Smallint [FK]}

Cocinero{No_Empleado Smallint [PK][FK] Especialidad Varchar (100)}

Mesero {No_Empleado Smallint [PK][FK], Horario Time}

Administrativo {No_Empleado Smallint [PK][FK], Rol Varchar (100)}

Asegurado {No_Empleado Smallint [PK][FK] null, Curp Char (18) [PK], Nombre_asegurado Varchar (100) Null, Parentesco Varchar (50) Null}

Categoria {Nombre_cat Varchar (100) [PK], Descripcion_cat Text}

Producto {Id_Producto Serial [PK],
Precio_Producto Numeric(8,2) Not Null,
Descripcion Text
Receta Text ,
Disponibilidad Int ,
Nombre_Prod Varchar (100) ,
Nombre_Cat Varchar (100)[FK],
Tipo Char (1) [CK]}

Platillo {Id_Producto Serial [PK][FK]}

Bebida {Id_Producto Serial [PK][FK]}

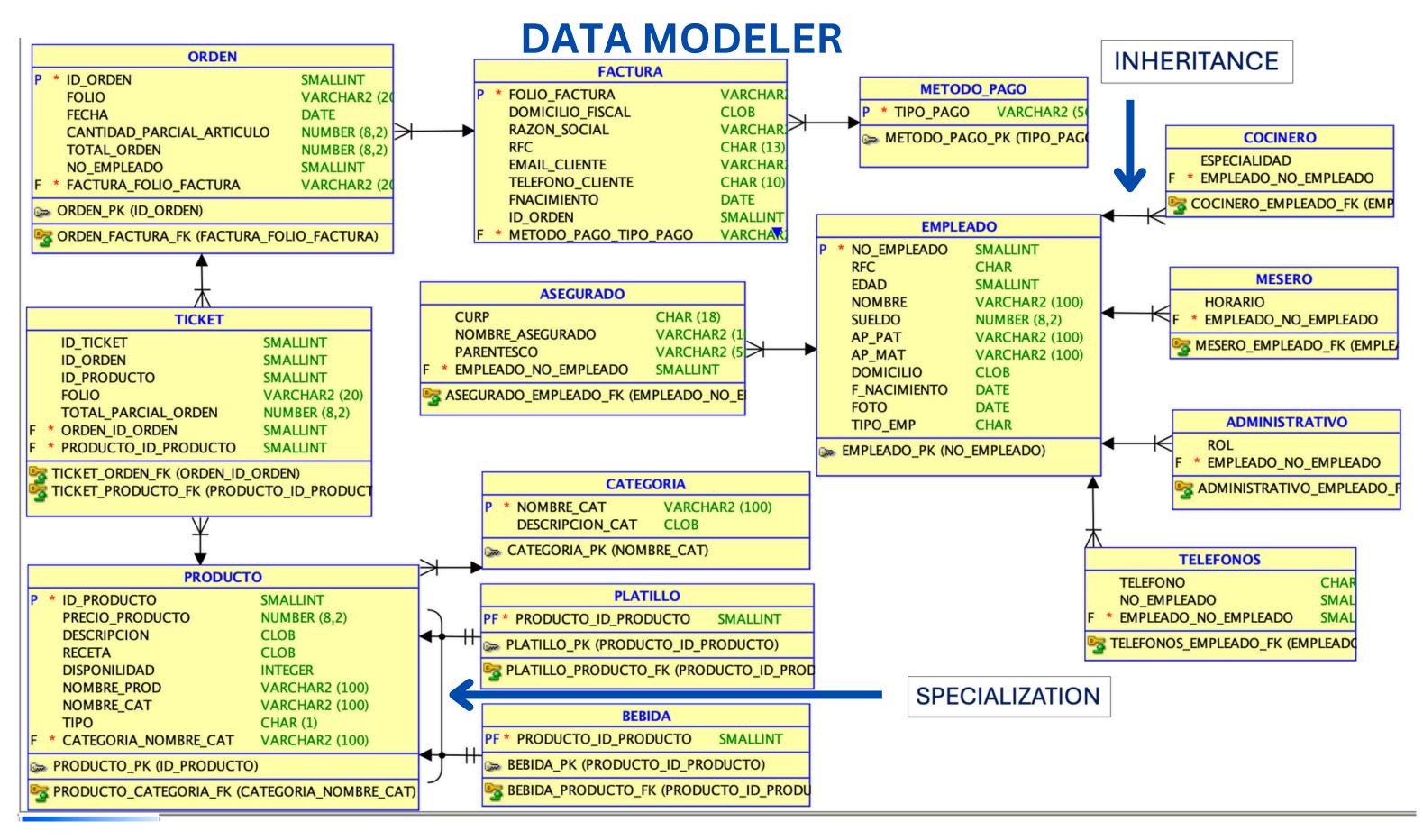
Orden{Id_Orden Serial [PK], Folio Varchar (20), Fecha Timestamp Cantidad_Parcial_Articulo Numeric (8,2), Total_Orden Numeric(8,2), No_Empleado Smallint [FK]}

Pertenece (Ticket) {
ID_Orden Serial [PK][FK],
ID_Producto Serial [PK][FK],
Total_Parcial_Orden Numeric(8,2)}

Factura{Folio_Factura Varchar (20) [PK], Domicilio_fiscal Text Not Null, Razón_Social Varchar (50) Not Null, Rfc Char (13) [UQ], Email_Cliente Varchar (100), Telefono_Cliente Char (10), Fecha_de_Nacimiento Date, Id_Orden Serial [PK]}

Método_Pago{Tipo_pago Varchar (50) [PK], Folio_Factura Varchar (20) Not Null [FK]}

PHYSICAL RELATIONAL MODEL



Friendly Website

Homepage

WELCOME: BASIC INFORMATION ABOUT THE SYSTEM AND ITS USE.

SOLUTION PROPOSALS

Employee Management

EMPLOYEE LIST: VIEW ALL EMPLOYEES WITH THEIR INFORMATION.

Used technology HTML Phy CSS { }

FINISH LINE WHERE DO WE WANT TO GO?

FINISH LINE

KEY RESULTS

- IMPROVED OPERATIONAL EFFICIENCY: ORDER PROCESSING TIME HAS DECREASED SIGNIFICANTLY, REDUCING ERRORS AND IMPROVING CUSTOMER SERVICE.
- PERSONNEL MANAGEMENT: SHIFT PLANNING AND PERSONNEL PERFORMANCE EVALUATION HAVE BEEN SIMPLIFIED, ALLOWING FOR MORE EFFECTIVE ADMINISTRATION.
- DATA FOR DECISION MAKING: THE ABILITY TO GENERATE DETAILED

 AND ACCURATE REPORTS HAS PROVIDED A SOLID FOUNDATION FOR

 STRATEGIC DECISION MAKING.

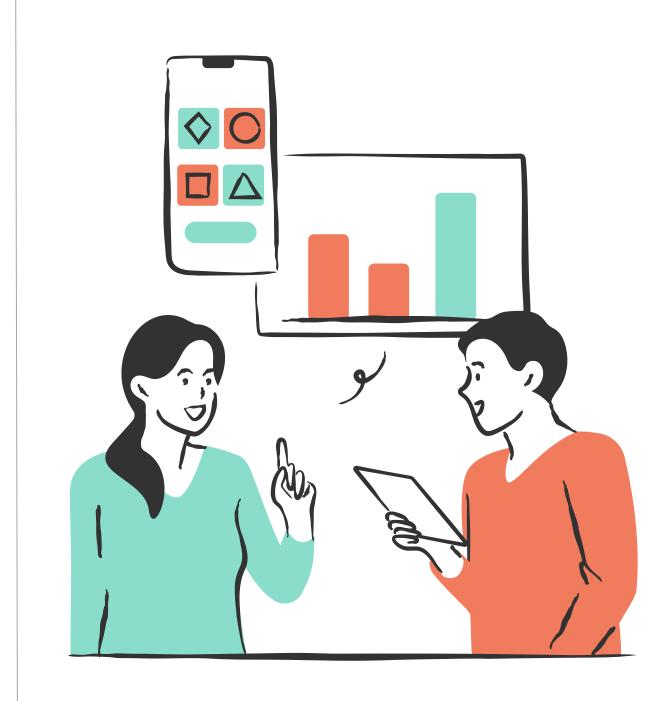
NEXT STEPS

- STAFF TRAINING: CONDUCT
 ADDITIONAL TRAINING SESSIONS TO
 ENSURE THAT ALL EMPLOYEES ARE
 FAMILIAR WITH THE SYSTEM AND CAN
 USE IT EFFECTIVELY.
- SUPPORT AND UPDATES: ESTABLISH A
 TECHNICAL SUPPORT CHANNEL TO
 RESOLVE ANY QUESTIONS OR
 PROBLEMS THAT MAY ARISE AND PLAN
 FUTURE SYSTEM UPDATES BASED ON
 STAFF FEEDBACK.

FINISH LINE

Monitoring and evaluation

- Performance Monitoring: Continuously monitor system performance and its impact on restaurant operations, making adjustments as necessary.
- Periodic Evaluation: Carry out periodic evaluations of the system and personnel to ensure that the objectives are being met and the expected benefits are being obtained.



THANKS FOR WATCHING