|  |
| --- |
| **Model Report**  Diagrama E-R  Version 1.0 ● Proposed |
| |  | | --- | |  | | Date/Time Generated: | 28/05/2019 10:01:49 a. m. | | Author: | vix |   EA Repository : C:\Users\vix\iCloudDrive\Enterprice\HCE.eap |
| |  |  | | --- | --- | | **CREATED WITH** |  | |

# **D****iagrama E-R**

*Package in package 'Model'*

Diagrama E-R

Version 1.0 Phase 1.0 Proposed

vix created on 05/05/2019. Last modified 05/05/2019

## **HCE diagram**

*Data Modeling diagram in package 'Diagrama E-R'*

HCE

Version 1.0

crossover created on 12/09/2018. Last modified 28/10/2018



HCE

## **antecedentes**

*Database table in package 'Tables'*

En esta tabla se podrán registrar los antecedentes de cada uno de los pacientes.

antecedentes

Version 1.0 Phase 1.0 Proposed

crossover created on 12/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| idantecedentes | VARCHAR(8) | True | Clave principal que identifica de forma única cada uno de los antecedentes de los pacientes. |

|  |  |  |  |
| --- | --- | --- | --- |
| idpaciente | BIGINT | True | ID exclusivo obtenido de la tabla paciente. Permite identificar a que paciente pertenecen los antecedentes. |

|  |  |  |  |
| --- | --- | --- | --- |
| patologiasPer | VARCHAR(1500) | True | Permite capturar si el paciente cuenta con una patologia personal. |

|  |  |  |  |
| --- | --- | --- | --- |
| patologiaaFam | VARCHAR(1500) | True | Permite capturar si el paciente cuenta con una patologia familiar. |

|  |  |  |  |
| --- | --- | --- | --- |
| medicamentos | VARCHAR(300) | True | Permite capturar si el paciente toma algún medicamento. |

|  |  |  |  |
| --- | --- | --- | --- |
| habitos | VARCHAR(300) | True | Permite capturar los habitos del paciente. |

|  |  |  |  |
| --- | --- | --- | --- |
| alergias | VARCHAR(300) | True | Permite registrar si el paciente e alérgico a algún medicamento o alguna otra sustancia o comida. |

|  |  |  |  |
| --- | --- | --- | --- |
| observaciones | VARCHAR(300) | False | Campo extra por si es necesario agregar alguna otra información sobre el paciente. |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_antecedentes | idantecedentes, idpaciente |  |

|  |  |  |
| --- | --- | --- |
| **TYPE / NAME** | **COLUMNS** | **COMMENTS** |
| «index» IXFK\_antecedentes\_paciente | idpaciente |  |

|  |  |  |
| --- | --- | --- |
| **FOREIGN KEY NAME** | **COLUMNS** | **REFERENCES** |
| FK\_antecedentes\_paciente |  | paciente() |

## **cita**

*Database table in package 'Tables'*

En esta tabla se podrán registrar los cada una de las cistas que el paciente solicite.

cita

Version 1.0 Phase 1.0 Proposed

crossover created on 12/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| idcitas | BIGINT | True |  |

|  |  |  |  |
| --- | --- | --- | --- |
| idpaciente | BIGINT | True | ID exclusivo obtenido de la tabla paciente. Permite identificar a que paciente solicito una cita medica. |

|  |  |  |  |
| --- | --- | --- | --- |
| cedula | VARCHAR(8) | True | ID exclusivo obtenido de la tabla doctor. Permite identificar que doctor atendera al paciente en la cita medica. |

|  |  |  |  |
| --- | --- | --- | --- |
| motivo | VARCHAR(100) | True | Registra el motivo por el cual el paciente solicita su cita medica. |

|  |  |  |  |
| --- | --- | --- | --- |
| fecha | DATE | True | Captura la fecha de la cita medica. |

|  |  |  |  |
| --- | --- | --- | --- |
| hora | VARCHAR(6) | True | Captura la hora de la cita medica. |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_Table1 | idcitas, idpaciente, cedula |  |

|  |  |  |
| --- | --- | --- |
| **TYPE / NAME** | **COLUMNS** | **COMMENTS** |
| «index» IXFK\_cita\_doctor | cedula |  |

|  |  |  |
| --- | --- | --- |
| «index» IXFK\_cita\_paciente | idpaciente |  |

|  |  |  |
| --- | --- | --- |
| **FOREIGN KEY NAME** | **COLUMNS** | **REFERENCES** |
| FK\_cita\_doctor | cedula | doctor(cedula) |

|  |  |  |
| --- | --- | --- |
| FK\_cita\_paciente | idpaciente | paciente(idpaciente) |

## **consulta**

*Database table in package 'Tables'*

Esta tabla contendrá las consultas que se han realizado en el hospital.

consulta

Version 1.0 Phase 1.0 Proposed

crossover created on 12/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| idconsulta | BIGINT | True | Clave principal que identifica de forma única cada una de las consultas que se han realizado en el hospital. Auto incrementable, iniciando en 1. |

|  |  |  |  |
| --- | --- | --- | --- |
| idpaciente | BIGINT | True | ID exclusivo obtenido de la tabla paciente. Permite identificar que paciente tomo la consulta medica. |

|  |  |  |  |
| --- | --- | --- | --- |
| cedula | VARCHAR(8) | True | ID exclusivo obtenido de la tabla doctor. Permite identificar que doctor atendio la consulta. |

|  |  |  |  |
| --- | --- | --- | --- |
| fecha | DATE | True | Fecha en que se realizo la consulta medica. |

|  |  |  |  |
| --- | --- | --- | --- |
| peso | DOUBLE | False |  |

|  |  |  |  |
| --- | --- | --- | --- |
| altura | DOUBLE | False |  |

|  |  |  |  |
| --- | --- | --- | --- |
| temperatura | VARCHAR(15) | False |  |

|  |  |  |  |
| --- | --- | --- | --- |
| presion | VARCHAR(20) | False |  |

|  |  |  |  |
| --- | --- | --- | --- |
| frecuencia\_cardiaca | VARCHAR(20) | False |  |

|  |  |  |  |
| --- | --- | --- | --- |
| motivo | VARCHAR(300) | True | Motivo por el cual se llevo acabo la consulta medica. |

|  |  |  |  |
| --- | --- | --- | --- |
| evolucion | VARCHAR(300) | True | Evolucion que presenta el paciente. |

|  |  |  |  |
| --- | --- | --- | --- |
| observaciones | VARCHAR(300) | True | Permite agregar al doctor otras observaciones que considere pertinentes. |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_consulta | idconsulta, idpaciente, cedula |  |

|  |  |  |
| --- | --- | --- |
| **TYPE / NAME** | **COLUMNS** | **COMMENTS** |
| «index» IXFK\_consulta\_doctor | cedula |  |

|  |  |  |
| --- | --- | --- |
| «index» IXFK\_consulta\_paciente | idpaciente |  |

|  |  |  |
| --- | --- | --- |
| **FOREIGN KEY NAME** | **COLUMNS** | **REFERENCES** |
| FK\_consulta\_paciente | idpaciente | paciente(idpaciente) |

|  |  |  |
| --- | --- | --- |
| FK\_consulta\_doctor | cedula | doctor(cedula) |

## **diagnostico**

*Database table in package 'Tables'*

En esta tabla el soctor podrán registrar el diagnostico que se le dio al pacientes despues de una consulta medica.

diagnostico

Version 1.0 Phase 1.0 Proposed

crossover created on 12/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| iddiagnostico | BIGINT | True | Clave principal que identifica de forma única cada diagnostico generado a un paciente. Auto incrementable, iniciando en 1. |

|  |  |  |  |
| --- | --- | --- | --- |
| idconsulta | BIGINT | True | ID exclusivo obtenido de la tabla consulta. |

|  |  |  |  |
| --- | --- | --- | --- |
| observaciones | VARCHAR(300) | False | Campo extra por si es necesario agregar alguna otra información sobre el diagnostico. |

|  |  |  |  |
| --- | --- | --- | --- |
| idpaciente | BIGINT | False |  |

|  |  |  |  |
| --- | --- | --- | --- |
| cedula | VARCHAR | False |  |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_diagnostico | iddiagnostico, idconsulta |  |

|  |  |  |
| --- | --- | --- |
| **TYPE / NAME** | **COLUMNS** | **COMMENTS** |
| «index» IXFK\_diagnostico\_consulta | idconsulta, idpaciente, cedula |  |

|  |  |  |
| --- | --- | --- |
| **FOREIGN KEY NAME** | **COLUMNS** | **REFERENCES** |
| FK\_diagnostico\_consulta | idconsulta,  idpaciente,  cedula | consulta(idconsulta, idpaciente, cedula) |

## **doctor**

*Database table in package 'Tables'*

En esta tabla se podrán registrar los datos personales de los doctores del hospital.

doctor

Version 1.0 Phase 1.0 Proposed

crossover created on 12/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| cedula | VARCHAR(15) | True | Clave principal que identifica de forma única a cada doctor. |

|  |  |  |  |
| --- | --- | --- | --- |
| nombre | VARCHAR(20) | True | Nombre del doctor. |

|  |  |  |  |
| --- | --- | --- | --- |
| apellidoP | VARCHAR(25) | True | Apellido paterno del doctor. |

|  |  |  |  |
| --- | --- | --- | --- |
| apellidoM | VARCHAR(25) | True | Apellido materno del doctor |

|  |  |  |  |
| --- | --- | --- | --- |
| direccion | VARCHAR(50) | True | Direccion del doctor. |

|  |  |  |  |
| --- | --- | --- | --- |
| telefono | VARCHAR(10) | False | Telefono del doctor. |

|  |  |  |  |
| --- | --- | --- | --- |
| email | VARCHAR(50) | False | Correo electronico del doctor. |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_doctor | cedula |  |

## **estudios\_medicos**

*Database table in package 'Tables'*

Esta tabla contendrá los datos de los diferentes estudios medicos.

estudios\_medicos

Version 1.0 Phase 1.0 Proposed

crossover created on 13/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| idestudio | BIGINT | True | Clave principal que identifica de forma única cada estudio medico. Auto incrementable, iniciando en 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| idconsulta | BIGINT | True | ID exclusivo obtenido de la tabla consulta. |

|  |  |  |  |
| --- | --- | --- | --- |
| idtipoestudio | VARCHAR(12) | True | ID exclusivo obtenido de la tabla tipoestudio. Permite identificar que tipo de estudios se realizara el paciente. |

|  |  |  |  |
| --- | --- | --- | --- |
| observaciones | VARCHAR(300) | True |  |

|  |  |  |  |
| --- | --- | --- | --- |
| idpaciente | BIGINT | False |  |

|  |  |  |  |
| --- | --- | --- | --- |
| cedula | VARCHAR | False |  |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_Table1 | idestudio, idconsulta, idtipoestudio |  |

|  |  |  |
| --- | --- | --- |
| **TYPE / NAME** | **COLUMNS** | **COMMENTS** |
| «index» IXFK\_estudios\_medicos\_consulta | idconsulta, idpaciente, cedula |  |

|  |  |  |
| --- | --- | --- |
| «index» IXFK\_estudios\_medicos\_tipo\_estudio | idtipoestudio |  |

|  |  |  |
| --- | --- | --- |
| **FOREIGN KEY NAME** | **COLUMNS** | **REFERENCES** |
| FK\_estudios\_medicos\_tipo\_estudio | idtipoestudio | tipo\_estudio(idtipoestudio) |

|  |  |  |
| --- | --- | --- |
| FK\_estudios\_medicos\_consulta | idconsulta,  idpaciente,  cedula | consulta(idconsulta, idpaciente, cedula) |

## **medicamento**

*Database table in package 'Tables'*

Esta tabla contendrá los datos de los medicamentos que se le recenten a los pacientes.

medicamento

Version 1.0 Phase 1.0 Proposed

crossover created on 13/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| idmedicamento | VARCHAR(12) | True | Clave principal que identifica de forma única cada uno de los medicamentos. |

|  |  |  |  |
| --- | --- | --- | --- |
| descripcion | VARCHAR(100) | True | Permite agregar una descripcion mas detallada sobre el medicamento. |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_medicamento | idmedicamento |  |

## **paciente**

*Database table in package 'Tables'*

Esta tabla contendrá los datos personales de los pacientes del hospital.

paciente

Version 1.0 Phase 1.0 Proposed

crossover created on 13/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| idpaciente | BIGINT | True | Clave principal que identifica de forma única a cada paciente. Auto incrementable, iniciando en 1. |

|  |  |  |  |
| --- | --- | --- | --- |
| nombre | VARCHAR(20) | True | Nombre del paciente. |

|  |  |  |  |
| --- | --- | --- | --- |
| apellidoP | VARCHAR(20) | True | Apellido paterno del paciente. |

|  |  |  |  |
| --- | --- | --- | --- |
| apellidoM | VARCHAR(20) | True | Apellido materno del paciente. |

|  |  |  |  |
| --- | --- | --- | --- |
| direccion | VARCHAR(50) | True | Direccion del paciente |

|  |  |  |  |
| --- | --- | --- | --- |
| telefono | VARCHAR(10) | False | Telefono del paciente |

|  |  |  |  |
| --- | --- | --- | --- |
| genero | VARCHAR(50) | True | Genero sexual del paciente. |

|  |  |  |  |
| --- | --- | --- | --- |
| fechaNac | DATE | True | Fecha de nacimiento del paciente |

|  |  |  |  |
| --- | --- | --- | --- |
| grupoSan | VARCHAR(15) | True | Grupo sanguineo del paciente |

|  |  |  |  |
| --- | --- | --- | --- |
| idantecedentes | VARCHAR | False |  |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_paciente | idpaciente |  |

## **receta**

*Database table in package 'Tables'*

En esta tabla se registraran las recetas que sevallan expidiendo a los pacientes.

receta

Version 1.0 Phase 1.0 Proposed

crossover created on 13/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| idreceta | VARCHAR(12) | True | Clave principal que identifica de forma única cada una de las recetan que se han expedidos a un paciente. |

|  |  |  |  |
| --- | --- | --- | --- |
| idconsulta | BIGINT | True | ID exclusivo obtenido de la tabla consulta. |

|  |  |  |  |
| --- | --- | --- | --- |
| idmedicamento | VARCHAR(12) | True | ID exclusivo obtenido de la tabla medicamento. |

|  |  |  |  |
| --- | --- | --- | --- |
| cantidad | TINYINT | True |  |

|  |  |  |  |
| --- | --- | --- | --- |
| prescripcion | VARCHAR(200) | True |  |

|  |  |  |  |
| --- | --- | --- | --- |
| idpaciente | BIGINT | False |  |

|  |  |  |  |
| --- | --- | --- | --- |
| cedula | VARCHAR | False |  |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_idreceta | idmedicamento, idconsulta, idreceta |  |

|  |  |  |
| --- | --- | --- |
| **TYPE / NAME** | **COLUMNS** | **COMMENTS** |
| «index» IXFK\_receta\_consulta | idconsulta, idpaciente, cedula |  |

|  |  |  |
| --- | --- | --- |
| «index» IXFK\_receta\_medicamento | idmedicamento |  |

|  |  |  |
| --- | --- | --- |
| **FOREIGN KEY NAME** | **COLUMNS** | **REFERENCES** |
| FK\_receta\_consulta | idconsulta,  idpaciente,  cedula | consulta(idconsulta, idpaciente, cedula) |

|  |  |  |
| --- | --- | --- |
| FK\_receta\_medicamento | idmedicamento | medicamento(idmedicamento) |

## **tipo\_estudio**

*Database table in package 'Tables'*

Esta tabla contendrá los datos de los diferentes estudios medicos que se pueden realizar los pacientes.

tipo\_estudio

Version 1.0 Phase 1.0 Proposed

crossover created on 13/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| idtipoestudio | VARCHAR(12) | True | Clave principal que identifica de forma única cada uno de los tipos de estudios que se realizan dentro del hospital. |

|  |  |  |  |
| --- | --- | --- | --- |
| descripcion | VARCHAR(100) | True | Permite agregar una descripcion mas detallada sobre el estudio medico. |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_tipo\_estudio | idtipoestudio |  |

## **usuario**

*Database table in package 'Tables'*

usuario

Version 1.0 Phase 1.0 Proposed

crossover created on 13/09/2018. Last modified 28/10/2018

DBMS MySql

| **COLUMN NAME** | **DATATYPE** | **NOT NULL** | **COMMENTS** |
| --- | --- | --- | --- |
| idusuario | BIGINT | True | Clave principal que identifica de forma única al usuario. Auto incrementable, iniciando en 1.  Properties:  AutoNum = 1  Increment = 1  property = AutoNum=1;StartNum=1;Increment=1;  StartNum = 1 |

|  |  |  |  |
| --- | --- | --- | --- |
| idpaciente | BIGINT | True | ID exclusivo obtenido de la tabla paciente. |

|  |  |  |  |
| --- | --- | --- | --- |
| usuario | VARCHAR(20) | True | Captura el “usuario” a usar para el acceso a la aplicación. |

|  |  |  |  |
| --- | --- | --- | --- |
| contraseña | VARCHAR(20) | True | Captura la contraseña del usuario para el acceso a la aplicación. |

|  |  |  |  |
| --- | --- | --- | --- |
| acceso | VARCHAR(20) | True | Permite asignar el tipo de acceso del usuario. |

|  |  |  |
| --- | --- | --- |
| **PRIMARY KEY NAME** | **COLUMNS** | **COMMENTS** |
| PK\_Table1 | idusuario, idpaciente |  |

|  |  |  |
| --- | --- | --- |
| **TYPE / NAME** | **COLUMNS** | **COMMENTS** |
| «index» IXFK\_usuario\_paciente | idpaciente |  |

|  |  |  |
| --- | --- | --- |
| **FOREIGN KEY NAME** | **COLUMNS** | **REFERENCES** |
| FK\_usuario\_paciente | idpaciente | paciente(idpaciente) |