

Definir nuestro Proyecto

¿Qué modelo de negocio utilizaremos?

El modelo para utilizar será el de una compañía de seguros con cobertura tanto para automóviles como para propiedades.

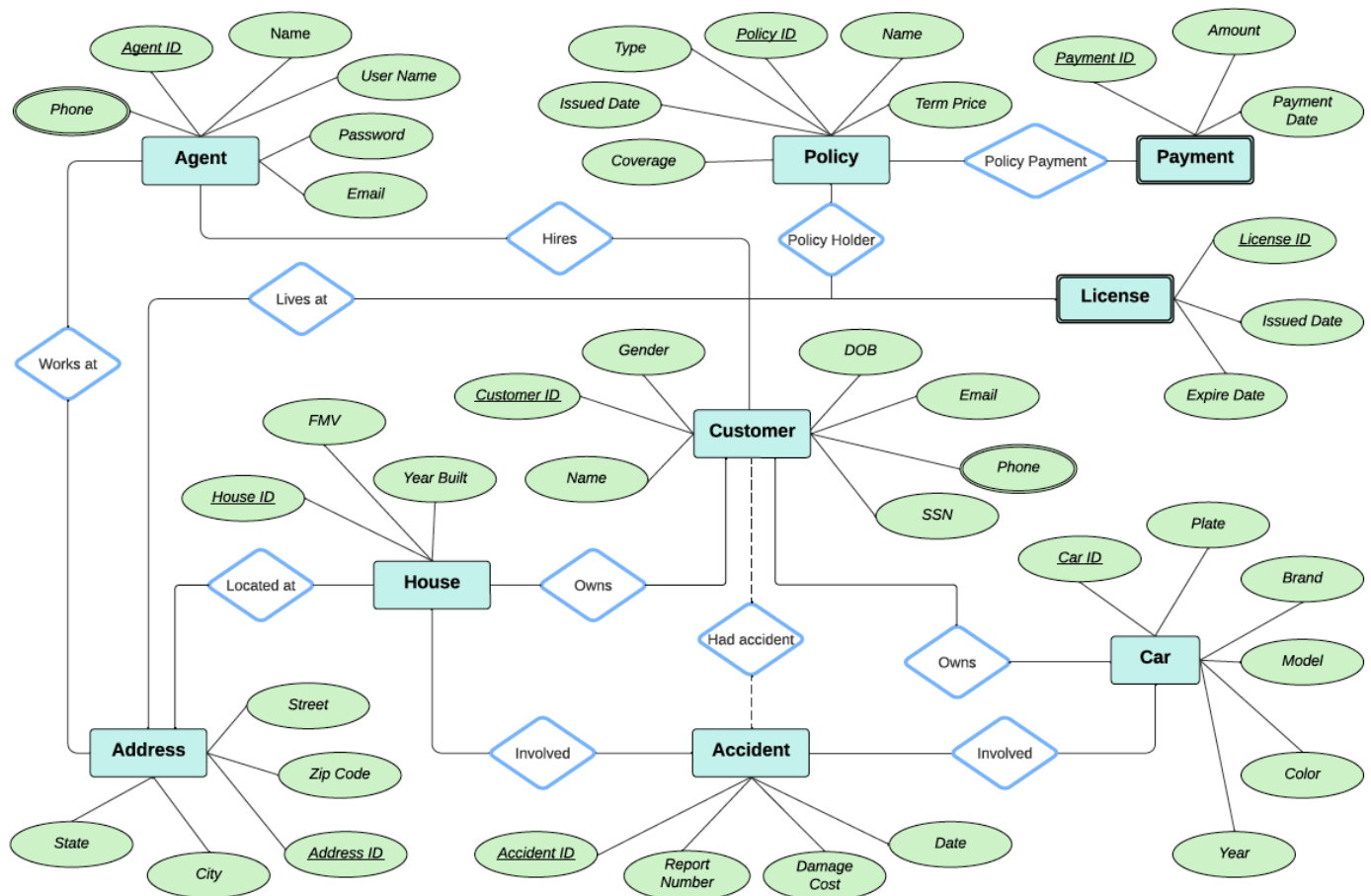
¿Cuál es el objetivo?

Crear un sistema de DB que nos permita almacenar información de una manera que nos permita fácilmente obtener métricas de control y seguimiento de las distintas pólizas otorgadas a clientes.

¿Cuál es la necesidad por cubrir?

La falta de métricas precisas para tener una idea de cómo esta rindiendo la compañía, que es lo que mas buscan nuestros clientes, cual es la póliza más demandada y cuál es su cobertura. También tener un registro confiable de facturación a efectos de contaduría y auditoria.

Diagrama Entidad-Relación (Conceptual)



****Diagrama Entidad-Relación (Esquemático) – Requiere cambios que se pueden observar en la descripción de tablas****

Descripción de Tablas

| Tabla | CUSTOMER | | | | | |
|-------|---------------------|---------|--------|----------|--------|----------------|
| Desc | DATOS DEL ASEGURADO | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | CUSTOMER_ID | INT | | X | X | AUTO_INCREMENT |
| | FIRST_NAME | VARCHAR | 100 | X | | |
| | LAST_NAME | VARCHAR | 100 | X | | |
| | GENDER | VARCHAR | 10 | | | DEFAULT NULL |
| | SSN | VARCHAR | 11 | X | X | |
| | DOB | DATE | | X | | |
| | EMAIL | VARCHAR | 100 | X | X | |

| Tabla | AGENT | | | | | |
|-------|-----------------------------|---------|--------|----------|--------|----------------|
| Desc | DATOS DEL AGENTE DE SEGUROS | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | AGENT_ID | INT | | X | X | AUTO_INCREMENT |
| | FIRST_NAME | VARCHAR | 50 | X | | |
| | LAST_NAME | VARCHAR | 50 | X | | |
| | USER_NAME | VARCHAR | 20 | X | X | |
| | PASSWORD | INT | 8 | X | | |
| | EMAIL | VARCHAR | 100 | X | X | |

| Tabla | DIRECTORY | | | | | |
|-------|-----------------------|---------|--------|----------|--------|----------------|
| Desc | DIRECTORIO TELEFONICO | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | PHONE_ID | INT | | X | X | AUTO_INCREMENT |
| FK | AGENT_ID | INT | | | | DEFAULT NULL |
| FK | CUSTOMER_ID | INT | | | | DEFAULT NULL |
| | PHONE_NUMBER | VARCHAR | 12 | X | | |
| | PRIMARY_PHONE | TINYINT | 1 | X | | DEFAULT TRUE |

| Tabla | PROPERTY | | | | | |
|-------|---------------------------------|---------|--------|----------|--------|----------------|
| Desc | DATOS DE PROPIEDADES ASEGURADAS | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | PROPERTY_ID | INT | | X | X | AUTO_INCREMENT |
| FK | CUSTOMER_ID | INT | | X | | |
| | FMV | DECIMAL | 10,2 | X | | |
| | PROPERTY_TYPE | VARCHAR | 50 | X | | |
| | IMPROVEMENTS | DECIMAL | 10,2 | | | DEFAULT 0 |
| | DETAILS | VARCHAR | 1000 | | | DEFAULT NULL |

| Tabla | VEHICLE | | | | | |
|-------|---|---------|--------|----------|--------|----------------|
| Desc | DATOS Y DESCRIPCION DE VEHICULOS ASEGURADOS | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | VEHICLE_ID | INT | | X | X | AUTO_INCREMENT |
| FK | CUSTOMER_ID | INT | | X | | |
| | MAKE | VARCHAR | 50 | X | | |
| | MODEL | VARCHAR | 50 | X | | |
| | YEAR | CHAR | 4 | X | | |
| | PLATE | VARCHAR | 7 | X | X | |
| | COLOR | VARCHAR | 50 | X | | |
| | DOORS | INT | | X | | |
| | MILEAGE | INT | | X | | |
| | CUSTOMIZATION | TINYINT | 1 | X | | DEFAULT FALSE |
| | OBSERVATIONS | VARCHAR | 1000 | | | DEFAULT NULL |

| Tabla | ADDRESS | | | | | |
|-------|----------------------|---------|--------|----------|--------|----------------|
| Desc | DATOS DE DIRECCIONES | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | ADDRESS_ID | INT | | X | X | AUTO_INCREMENT |
| FK | AGENT_ID | INT | | | | DEFAULT NULL |
| FK | PROPERTY_ID | INT | | | | DEFAULT NULL |
| | STREET_ADDRESS | VARCHAR | 50 | X | | |
| | STREET_NUMBER | CHAR | 4 | X | | |
| | CITY | VARCHAR | 50 | X | | |
| | STATE | VARCHAR | 50 | X | | |
| | ZIP_CODE | VARCHAR | 10 | X | | |

| Tabla | COVERAGE | | | | | |
|-------|---------------------------------|---------|--------|----------|--------|----------------|
| Desc | TIPO DE COBERTURA POR CATEGORIA | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | COVERAGE_ID | INT | | X | X | AUTO_INCREMENT |
| | COVERAGE_TYPE | VARCHAR | 50 | X | | |
| | COVERAGE_DESC | VARCHAR | 500 | | | DEFAULT NULL |
| | MIN_PAYMENT | DECIMAL | 10,2 | X | | |
| | MAX_COVERAGE | DECIMAL | 10,2 | X | | |

| Tabla | POLICY | | | | | |
|-------|--|---------|--------|----------|--------|------------------------|
| Desc | DATOS DE POLIZAS DE SEGURO Y COBERTURA | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | POLICY_ID | INT | | X | X | AUTO_INCREMENT |
| FK | PROPERTY_ID | INT | | | | DEFAULT NULL |
| FK | VEHICLE_ID | INT | | | | DEFAULT NULL |
| | POLICY_CATEGORY | VARCHAR | 100 | X | | |
| FK | COVERAGE_ID | INT | | X | | |
| | ISSUED_DATE | DATE | | X | | |
| | EXPIRE_DATE | DATE | | X | | |
| | TOTAL_AMOUNT | DECIMAL | 10,2 | X | | DEFAULT NULL POR AHORA |
| | POLICY_ACTIVE | TINYINT | 1 | X | | DEFAULT TRUE |

| | | | | | | |
|--------------|---|-------------|---------------|-----------------|---------------|-------------------|
| Tabla | ACCIDENT | | | | | |
| Desc | DATOS DE SINIESTRO OCURRIDO YA SEA VEHICULO O PROPIEDAD | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | REPORT_NUMBER | INT | | X | X | AUTO_INCREMENT |
| FK | PROPERTY_ID | INT | | | | DEFAULT_NULL |
| FK | VEHICLE_ID | INT | | | | DEFAULT_NULL |
| | ACCIDENT_TYPE | VARCHAR | 50 | X | | |
| | ACCIDENT_DATE | DATETIME | | X | | CURRENT_TIMESTAMP |
| | LOCATION | VARCHAR | 100 | X | | |
| | ACCIDENT_RECORD | VARCHAR | 1000 | | | DEFAULT_NULL |
| | DAMAGE_ESTIMATE | DECIMAL | 10,2 | X | | |
| | AT_FAULT | TINYINT | 1 | | | DEFAULT_NULL |

| | | | | | | |
|--------------|---------------------|-------------|---------------|-----------------|---------------|--|
| Tabla | PAYMENT | | | | | |
| Desc | INFORMACION DE PAGO | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | PAYMENT_ID | INT | | X | X | AUTO_INCREMENT |
| FK | AGENT_ID | INT | | X | | |
| FK | CUSTOMER_ID | INT | | X | | |
| FK | POLICY_ID | INT | | X | | |
| | TOTAL_AMOUNT | DECIMAL | 10,2 | X | | |
| | CREATED_DATE | DATETIME | | X | | CURRENT_TIMESTAMP |
| | DUE_DATE | DATE | | X | | DATE_ADD(CURRENT_TIMESTAMP, INTERVAL 30 DAY) |
| | PAID_DATE | DATE | | | | DEFAULT_NULL POR AHORA |
| | PAYMENT_METHOD | VARCHAR | 50 | X | | |
| | DEBITORCREDIT | TINYINT | 1 | X | | |
| | ADDITIONAL_INFO | VARCHAR | 50 | | | DEFAULT_NULL |

| | | | | | | |
|--------------|-------------------------------|-------------|---------------|-----------------|---------------|----------------|
| Tabla | LICENSE | | | | | |
| Desc | DATOS DE LICENCIA DE CONDUCIR | | | | | |
| KEY | COLUMN | TYPE | LENGHT | NOT NULL | UNIQUE | DEFAULT |
| PK | LICENSE_ID | INT | 20 | X | X | AUTO_INCREMENT |
| FK | CUSTOMER_ID | INT | | X | | |
| | LIC_ISSUED_DATE | DATE | | X | | |
| | LIC_EXPIRE_DATE | DATE | | X | | |
| | LICENSE_ACTIVE | TINYINT | 1 | X | | DEFAULT_TRUE |

Drive Link para acceder al script SQL de Creación de tablas y Inserción de datos (ScripIns Larghi):

<https://github.com/juanlarghi/CursoSQL.git>