**Mortgage Process Accelerator**

**Table Related to Loan Products:**

**Table-1:** Property Restriction Category(prop\_rstr\_catg)

* This table store the data about the restriction category.
* Ex**:** Environment, Property type.
* It will have one to many relationship with **prop\_rstr (One-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| catg\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the category id and it is auto generated starting from 1. |
| catg\_type | Character varying up to 30  Constraint**:** Not Null | This column holds the category type name  Ex: Environment, Property type |
| catg\_desc | Character varying up to 300  Constraint**:** Not Null | This column holds some short description about the category type |

**Table-2:** Property Restriction(prop\_rstr)

* This table store the data about the restriction of each category.
* This will have many to one relationship with table **prop\_rstr\_catg** **(Many-to-One).**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| rstr\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the restriction id and it is auto generated starting from 1. |
| rstr\_catg\_id | Integer  Constraint**:** Not Null, foreign key | This is a primary key of restriction category table which serves many-to-one relation |
| rstr\_type | Character varying up to 30  Constraint**:** Not Null | This column holds the restriction type name  Ex: Multiunit, HOA, Tax Liens |
| rstr\_desc | Character varying up to 300  Constraint**:** Not Null | This column holds some short description about the restriction type |

**Table-3:** Loan Product(loan\_prod)

* This table store the master data about the loan products.
* This will have many to many relationships with table **prop\_rstr** **(Many-to-Many).**
* This table will have many to many relationships with **escrow\_requirements (Many-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| prod\_id | Integer - Serial (starts with 10001)  Constraint**:** Primary Key | This is the primary key which indicates the loan product id and it is auto generated starting from 10001. |
| prod\_name | Character varying up to 50  Constraint**:** Not Null, Unique key | This column holds the name of the product. |
| intr\_rate | Decimal (5,2)  Constraint**:** Not Null | This column holds some short description about the restriction type |
| loan\_term | Integer  Constraint**:** Not Null | This column holds how many years the loan is termed |
| max\_loan\_amt | Decimal (18,2)  Constraint**:** Not Null | This column holds the maximum loan to be provided to the loan product |
| mdp | Decimal (18,2)  Constraint**:** Not Null | This column holds the **minimum down payment** to be paid, interpret this w.r.t mdp\_type |
| mdp\_type | Character varying up to 10  check (mdp\_type = 'ABSOLUTE' OR mdp\_type = 'PERCENTAGE') | Mdp Value can be either ABSOLUTE or PERCENTAGE |
| min\_cr\_score | Integer  Constraint**:** Not Null | Min required credit score for the loan product |
| max\_ltv\_ratio | Integer  Constraint**:** Not Null | Max Loan-to-Value ratio |
| pmi\_req | Boolean  Constraint**:** Not Null | Private Mortgage Insurance required |
| origin\_fee | Decimal (18,2)  Constraint**:** Not Null | Origination fee |
| prepay\_penalty | Boolean  Constraint**:** Not Null | is pre-payment penalty applicable to the loan product |
| docu\_reqrm\_notes | Character varying up to 500  Constraint**:** Not Null | Documentation requirements - free text |
| escrow\_req | Boolean  Constraint**:** Not Null | Is Escrow required for the loan product |
| prop\_rstr\_exists | Boolean  Constraint**:** Not Null | Do Property restrictions exist for the loan product |
| status | Boolean  Constraint**:** Not Null | If true the loan product is currently Active else Inactive |

* mdp\_type = ABSOLUTE 🡪 Actual amount of Min down payment.
* mdp\_type = PERCENTAGE 🡪 Min down payment is expressed as a percentage of actual loan amount.

**Table-4:** Join table of Loan Product(loan\_prod) and Property Restriction(prop\_rstr)

* This table holds primary keys of both tables as foreign keys.
* This will establish many to many relationships with both tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| prod\_id | Integer  Constraint**:** Foreign Key | Primary key of loan\_prod table |
| rstr\_id | Integer  Constraint**:**  Foreign Key | Primary key of prop\_rstr table |

* Prod\_id, rstr\_id combinedly treated as **Composite Primary Key.**

**Table-5:** Loan Product Status History(loan\_prod\_status\_history)

* This table will track loan product status.
* This will establish many to one relationship with **loan\_prod (Many-to-One)**.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| prod\_id | Integer  Constraint**:** Foreign Key, Not null | Primary key of loan\_prod table |
| start\_dt | Date  Constraint**:** Not null | Indicates the start date of the loan product from its last inactive |
| end\_dt | Date  Constraint**:** Not null, check (end\_dt >= start\_dt) | Indicates the start date of the loan product from its last inactive |

* Prod\_id, start\_dt combinedly treated as **Composite Primary Key.**

**Table-6:** Pre-Pay Penalty master(pre\_pay\_penalty\_master)

* This table will have pre-penalty data.
* This will establish one to one relationship with **loan\_prod (One-to-One)**.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| prod\_id | Integer  Constraint**:** Not null, Unique Key, Foreign Key | Primary key of table loan\_prod |
| min\_penalty\_amt | Decimal (18,2)  Constraint**:** Not null | This column contains the minimum penalty amount. |
| penalty\_percentage | Decimal (5,2)  Constraint**:** Not null | This column will hold the penalty percentage |

* The penalty amount will be the greatest of **min\_penalty\_amt** and **penalty\_percentage.**

**Table Related to ESCROW:**

**Table-1:** Escrow Company (escrow\_companies)

* This table store the data about Escrow companies.
* This table will have one to many relationships with **escrow\_agent (One-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| esco\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the escrow id and it is auto generated starting from 1. |
| esco\_name | Character varying up to 60  Constraint**:** Not Null, Unique | This column holds the Escrow company name |
| address | Character varying up to 255  Constraint**:** Not Null | This column holds address details  Ex: street no and name |
| state | Character varying up to 100  Constraint**:** Not Null | State details |
| city | Character varying up to 100  Constraint**:** Not Null | City details |
| zipcode | Character varying exactly 6  Constraint**:** Not Null, check (zipcode ~ '^ ([0-9]{5})?$') | Enforces US zip code format  Usually will have char in code |
| phone | Character varying up to 20 | Phone Number |
| email | Character varying up to 20  Constraint: unique | Email |
| in\_escrow\_ac\_no | Character varying up to 20 | A/c info of the escrow co.’s holding a/c where funds are temporarily deposited |
| es\_ac\_bank\_name | Character varying up to 20 | Name of Bank in which escrow a/c is present |
| es\_process\_time | Integer | measured in days. It's an avg of co.’s performance. Usually the avg ranges between 20 working days to 30 working days |

**Table-2:** Escrow requirements(escrow\_requirements)

* This table will hold data related to different requirements on loan products.
* This table will have many to many relationships with **loan\_product (Many-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| req\_id | Integer    Constraint**:** Primary Key | Primary key auto generates from 1. |
| req\_name | Character varying up to 100  Constraint**:** Not Null | This column holds the requirement name |
| description | Text | Holds the description of the requirement |

**Table-3:** Join table of Loan Product(loan\_prod) and requirements (escrow\_requirments)

* This table holds primary keys of both tables as foreign keys.
* This will establish many to many relationships with both tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| prod\_id | Integer  Constraint**:** Foreign Key | Primary key of loan\_prod table |
| req\_id | Integer  Constraint**:**  Foreign Key | Primary key of requirement table |

* Prod\_id, req\_id combinedly treated as **Composite Primary Key.**

**Table-4:** EscrowService Area (escrow\_service\_area)

* This table holds the data about the location where service is provided.
* This will establish relationships escrow \_company.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| service\_area\_id | Integer  Constraint**:** Primary Key | Primary key auto generates from 1. |
| esco\_id | Integer  Constraint**:**  Foreign Key | Primary key of escrow company table |
| county | Character varying up to 255  Constraint**:** Not Null | This column holds county details |
| state | Character varying up to 100  Constraint**:** Not Null | State details |
| city | Character varying up to 100  Constraint**:** Not Null | City details |
| zipcode | Character varying exactly 6  Constraint**:** Not Null, check (zipcode ~ '^ ([0-9]{5})?$') | Enforces US zip code format  Usually will have char in code |

* This table we maintain duplication on data (one company can have multiple location, same with location can have multiple companies).
* Usually we prefer join table but it will increase complexities while retrieving so we prefer duplication of data.

**Table-5:** Escrow Agent (escrow\_agent)

* This table store the data about Escrow Agent.
* This table will have one to many relationships with **escrow\_companies (One-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| escrow\_agent\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the agent id and it is auto generated starting from 1. |
| escrow\_license\_id | Character varying up to 10  Constraint**:** Not Null, Unique | This column holds the agent license id |
| first\_name | Character varying up to 50  Constraint**:** Not Null | First Name |
| last\_name | Character varying up to 50  Constraint**:** Not Null | Last Name |
| phone | Character varying up to 20 | Phone Number |
| email | Character varying up to 20  Constraint: unique | Email |
| esco\_id | Integer  Constraint: Foreign Key | Primary key of escrow\_companies table |
| avg\_tx\_vol | Integer | Average number of transactions handled by the escrow agent on monthly basis |
| tx\_success\_rate | decimal (5,2) | Success rate based on monthly average |
| escrow\_sw | Character varying up to 50 | Escrow software used by the agent  Ex: Qualia, E-Closing, Snap Close, ResWare etc. |

**Tables Related to Underwriting:**

**Table-1:** Underwriting Company (underwriting\_companies)

* This table store the data about Underwriting companies.
* This table will have one to many relationships with **underwriter (One-to-Many)**
* This table will have one to many relationships with **underwriting\_history (One-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| uwco\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the underwriting id and it is auto generated starting from 1. |
| name | Character varying up to 60  Constraint**:** Not Null, Unique | This column holds the underwriting company name |
| address | Character varying up to 255  Constraint**:** Not Null | This column holds address details  Ex: street no and name |
| state | Character varying up to 100  Constraint**:** Not Null | State details |
| city | Character varying up to 100  Constraint**:** Not Null | City details |
| zipcode | Character varying exactly 6  Constraint**:** Not Null, check (zipcode ~ '^ ([0-9]{5})?$') | Enforces US zip code format  Usually will have char in code |
| phone | Character varying up to 20 | Phone Number |
| email | Character varying up to 20  Constraint: unique | Email |
| website | Character varying up to 255 | Website details |
| notes | Text | Notes about the underwriting company |
| uw\_claim\_process | Text | Details about the process followed by the underwriting company for handling insurance claims |

**Table-2:** Underwriting Criteria (underwriting\_criteria)

* This table will hold data related to different criteria on loan products.
* This table will have many to many relationships with **loan\_product (Many-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| criteria\_id | Integer    Constraint**:** Primary Key | Primary key auto generates from 1. |
| criteria\_name | Character varying up to 100  Constraint**:** Not Null | This column holds the criteria name |
| notes | Text | Holds the description of the criteria |

**Table-3:** Join table of Loan Product(loan\_prod) and criteria (underwriting\_criteria)

* This table holds primary keys of both tables as foreign keys.
* This will establish many to many relationships with both tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| prod\_id | Integer  Constraint**:** Foreign Key | Primary key of loan\_prod table |
| criteria\_id | Integer  Constraint**:**  Foreign Key | Primary key of criteria table |

* Prod\_id, criteria\_id combinedly treated as **Composite Primary Key.**

**Table-4:** UnderwritingService Area (underwriting\_service\_area)

* This table holds the data about the location where service is provided.
* This will establish relationships underwriting \_company.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| service\_area\_id | Integer  Constraint**:** Primary Key | Primary key auto generates from 1. |
| uwco\_id | Integer  Constraint**:**  Foreign Key | Primary key of under writing company table |
| county | Character varying up to 255  Constraint**:** Not Null | This column holds county details |
| state | Character varying up to 100  Constraint**:** Not Null | State details |
| city | Character varying up to 100  Constraint**:** Not Null | City details |
| zipcode | Character varying exactly 6  Constraint**:** Not Null, check (zipcode ~ '^ ([0-9]{5})?$') | Enforces US zip code format  Usually will have char in code |

* This table we maintain duplication on data (one company can have multiple location, same with location can have multiple companies).
* Usually we prefer join table but it will increase complexities while retrieving so we prefer duplication of data.

**Table-5:** Underwriter (underwriter)

* This table store the data about underwriter.
* This table will have one to many relationships with **underwriting\_companies (One-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| underwriter\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the agent id and it is auto generated starting from 1. |
| underwriter\_license\_id | Character varying up to 10  Constraint**:** Not Null, Unique | This column holds the underwriter license id |
| first\_name | Character varying up to 50  Constraint**:** Not Null | First Name |
| last\_name | Character varying up to 50  Constraint**:** Not Null | Last Name |
| phone | Character varying up to 20 | Phone Number |
| email | Character varying up to 20  Constraint: unique | Email |
| uwco\_id | Integer  Constraint: Foreign Key | Primary key of underwriting companies table |
| liability\_insu | Text | Details about the liability insurance coverage provided by the underwriter |

**Table-6:** Underwriting History (underwriting\_history)

* This table store the data about underwriter.
* This table will have many to one relationship with **underwriting\_companies (Many-to-One)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| history\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the agent id and it is auto generated starting from 1. |
| uwco\_id | Integer  Constraint: Foreign Key | Primary key of underwriting company |
| loan\_id | Integer | loan\_id should have FK with loan table which has loan data of historical transactions and not current transactions |
| decision | Character varying up to 50  Constraint**:** Not Null | Decision made to the loan by the underwriting company |
| decision\_date | Date  Constraint**:** Not Null | Date on which the decision is made |
| notes | Text | Notes about the loan and the decision made |

* loan\_history table - not being covered here, hence no Foreign Key is being set

**Tables Related to Appraisal Company:**

**Table-1:** Appraisal Company (appraisal\_companies)

* This table store the data about Underwriting companies.
* This table will have one to many relationships with **appraiser (One-to-Many)**
* This table will have many to many relationships with **appraisal\_property\_types (Many-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| amc\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the appraisal company id and it is auto generated starting from 1. |
| amc\_reg\_id | Character varying up to 10  Constraint**:** Not Null, Unique | This is the appraisal company registration id |
| amc\_name | Character varying up to 60  Constraint**:** Not Null, Unique | This column holds the amc company name |
| address | Character varying up to 255  Constraint**:** Not Null | This column holds address details  Ex: street no and name |
| state | Character varying up to 100  Constraint**:** Not Null | State details |
| city | Character varying up to 100  Constraint**:** Not Null | City details |
| zipcode | Character varying exactly 6  Constraint**:** Not Null, check (zipcode ~ '^ ([0-9]{5})?$') | Enforces US zip code format  Usually will have char in code |
| phone | Character varying up to 20 | Phone Number |
| email | Character varying up to 20  Constraint: unique | Email |
| website | Character varying up to 255 | Website details |
| notes | Text | Notes about the underwriting company |
| appraisal\_methodology | Text | Description of the methodology used by the appraisal company to determine property values (some follow comparable sales approach, some follow income approach etc) |
| valu\_low\_limit | Decimal (18,2) | Lower limit of the property valuation that will be taken up |

**Table-2:** AMCService Area (appraisal\_service\_area)

* This table holds the data about the location where service is provided.
* This will establish relationships appraisal \_company.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| appraisal\_area\_id | Integer  Constraint**:** Primary Key | Primary key auto generates from 1. |
| amc\_id | Integer  Constraint**:**  Foreign Key | Primary key of amc company table |
| county | Character varying up to 255  Constraint**:** Not Null | This column holds county details |
| state | Character varying up to 100  Constraint**:** Not Null | State details |
| city | Character varying up to 100  Constraint**:** Not Null | City details |
| zipcode | Character varying exactly 6  Constraint**:** Not Null, check (zipcode ~ '^ ([0-9]{5})?$') | Enforces US zip code format  Usually will have char in code |

* This table we maintain duplication on data (one company can have multiple location, same with location can have multiple companies).
* Usually we prefer join table but it will increase complexities while retrieving so we prefer duplication of data.

**Table-3:** Appraisal Property Type (appraisal\_property\_types)

* This table store the data about the property type of appraisal.
* This will have many to many relationships with table **appraisal\_companies (Many-to-Many).**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| prop\_type\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the property type id and it is auto generated starting from 1. |
| prop\_type\_name | Character varying up to 30  Constraint**:** Not Null, Unique | This column holds the property type name |

**Table-4:** Join table of Appraisal Company and Property type

* This table holds primary keys of both tables as foreign keys.
* This will establish many to many relationships with both tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| amc\_id | Integer  Constraint**:** Foreign Key | Primary key of amc table |
| prop\_type\_id | Integer  Constraint**:**  Foreign Key | Primary key of property type table |

* Amc\_id, prop\_type\_id combinedly treated as **Composite Primary Key.**

**Table-5:** Property Appraiser (property\_appraiser)

* This table store the data about appraiser.
* This table will have one to many relationships with **appraisal\_company (One-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| appraiser\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the appraiser id and it is auto generated starting from 1. |
| appraiser\_license\_id | Character varying up to 10  Constraint**:** Not Null, Unique | This column holds the appraiser license id |
| first\_name | Character varying up to 50  Constraint**:** Not Null | First Name |
| last\_name | Character varying up to 50  Constraint**:** Not Null | Last Name |
| phone | Character varying up to 20 | Phone Number |
| email | Character varying up to 20  Constraint: unique | Email |
| amc\_id | Integer  Constraint: Foreign Key | Primary key of amc companies table |
| expert\_witness\_testimony | Boolean | Does this appraiser work on Expert witness testimony service or not |

**Tables Related to Survey Company:**

**Table-1:** Survey Company (survey\_companies)

* This table store the data about Underwriting companies.
* This table will have one to many relationships with **surveyor (One-to-Many)**
* This table will have many to many relationships with **survey\_type (Many-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| srvy\_co\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the survey company id and it is auto generated starting from 1. |
| company\_name | Character varying up to 60  Constraint**:** Not Null, Unique | This column holds the survey company name |
| address | Character varying up to 255  Constraint**:** Not Null | This column holds address details  Ex: street no and name |
| state | Character varying up to 100  Constraint**:** Not Null | State details |
| city | Character varying up to 100  Constraint**:** Not Null | City details |
| zipcode | Character varying exactly 6  Constraint**:** Not Null, check (zipcode ~ '^ ([0-9]{5})?$') | Enforces US zip code format  Usually will have char in code |
| phone | Character varying up to 20 | Phone Number |
| email | Character varying up to 20  Constraint: unique | Email |
| website | Character varying up to 255 | Website details |
| notes | Text | Notes about the underwriting company |
| triang\_service | Boolean | Does this survey company provide Triangulation Survey service. |

**Table-2:** SurveyService Area (survey\_service\_area)

* This table holds the data about the location where service is provided.
* This will establish relationships survey \_company.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| service\_area\_id | Integer  Constraint**:** Primary Key | Primary key auto generates from 1. |
| srvy\_co\_id | Integer  Constraint**:**  Foreign Key | Primary key of survey company table |
| county | Character varying up to 255  Constraint**:** Not Null | This column holds county details |
| state | Character varying up to 100  Constraint**:** Not Null | State details |
| city | Character varying up to 100  Constraint**:** Not Null | City details |
| zipcode | Character varying exactly 6  Constraint**:** Not Null, check (zipcode ~ '^ ([0-9]{5})?$') | Enforces US zip code format  Usually will have char in code |

* This table we maintain duplication on data (one company can have multiple location, same with location can have multiple companies).
* Usually we prefer join table but it will increase complexities while retrieving so we prefer duplication of data.

**Table-3:** Survey Type (survey\_type)

* This table store the data about the property type of appraisal.
* This will have many to many relationships with table **survey\_companies (Many-to-Many).**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| srvy\_type\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the survey type id and it is auto generated starting from 1. |
| srvy\_type\_name | Character varying up to 30  Constraint**:** Not Null, Unique | This column holds the survey type name |

**Table-4:** Join table of Survey Company and Survey type

* This table holds primary keys of both tables as foreign keys.
* This will establish many to many relationships with both tables.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| srvy\_co\_id | Integer  Constraint**:** Foreign Key | Primary key of survey table |
| srvy\_type\_id | Integer  Constraint**:**  Foreign Key | Primary key of survey type table |

* srvy\_co\_id, srvy\_type\_id combinedly treated as **Composite Primary Key.**

**Table-5:** Surveyor (surveyor)

* This table store the data about surveyor.
* This table will have one to many relationships with **survey\_company (One-to-Many)**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Data type** | **Remarks** |
| surveyor\_id | Integer - Serial (default value start)  Constraint**:** Primary Key | This is the primary key which indicates the surveyor id and it is auto generated starting from 1. |
| surveyor\_license\_id | Character varying up to 10  Constraint**:** Not Null, Unique | This column holds the surveyor license id |
| first\_name | Character varying up to 50  Constraint**:** Not Null | First Name |
| last\_name | Character varying up to 50  Constraint**:** Not Null | Last Name |
| phone | Character varying up to 20 | Phone Number |
| email | Character varying up to 20  Constraint: unique | Email |
| srvy\_co\_id | Integer  Constraint: Foreign Key | Primary key of survey companies table |
| geodetic\_control | Boolean | Does this surveyor handle Geodetic Control survey |
| historic\_preservation | Boolean | Does this surveyor handle Historic Preservation survey |