**Relationships**

The “Clients” table has a one-to-many relationship with the “Application” table, as each client can have multiple applications, but each application belongs to only one client

The “Application” table has a many-to-one relationship with the “Policies” table as many applications can be for one policy, and each policy may be assigned to many applications

The “Policies” table has a one-to-one relationship with each of the specialized policy tables (Auto Insurance Policies, Health Insurance Policies, Life Insurance Policies, Homeowner Insurance Policies, and Renter Insurance Policies), as each policy of a specific type must belong to the “Policies” table, and each record in the specialized policy table can only belong to one policy

One Employee can be an Underwriter

Employee.EMP\_ID can be linked to a single Underwriters.EMP\_ID (One-to-One relationship).

One Underwriter can be associated with one Employee

Underwriters.EMP\_ID must be linked to a single Employee.EMP\_ID (One-to-One relationship).

One Employee can be associated with one Agent (One-to-One)

Each agent is associated with one employee (One-to-One)

Agents.EMP\_ID refers to Employee.EMP\_ID (Foreign Key Constraint)

One Employee can be associated with one Accountant and is a One-to-One relationship.

Each Accountant is associated with one Employee and is a One-to-One relationship.

Accountants.EMP\_ID and Employee.EMP\_ID (Foreign Key Constraint)

One Accountant can be responsible for multiple Invoices (One-to-Many relationship)

Accountants.EMP\_ID and Invoices.EMP\_ID

Many Invoices can be associated with one Accountant (Many-to-One relationship)

Invoices.EMP\_ID, to Accountants.EMP\_ID. (Foreign Key Constraint)

One Agent can be associated with multiple Clients (One to many)

Agents.EMP\_ID and Clients.EMP\_ID Foreign Key Restraint)

Many Clients can be associated with one Agent(Many to one)

Clients.EMP\_ID and Agents.EMP\_ID

Policy Details record can be associated with one or more Invoices (One to many)

Many invoices can be associated with one Policy Detail (Many to One)

Invoices.PD\_ID, which refers to Policy Details.PD\_ID (Foreign Key Constraint)

One Client can be associated with multiple Invoices (One to many)

Client.C\_ID and Invoices.C\_ID Foreign Key Restraint)

Many Invoices can be associated with one Client(Many to one)

Invoices.C\_ID and Client.C\_ID

One Policy can be associated with multiple Invoices (One to Many)

Policies.P\_ID and Invoices.P\_ID (Foreign Key Constraint)

Multiple Invoices can be associated with one Policy (Many to one relation)

Invoices.P\_ID, refers to Policies.P\_ID (Foreign Key Constraint)

Each Underwriter writes multiple Policy Details records (One to many)

Underwriter.EMP\_ID and Policy Details.EMP\_ID (Foreign Key Constraint)

Multiple Policy Details records can be written by only one Underwriter.

Policy Details.EMP\_ID and Underwriter.EMP\_ID (Foreign Key Constraint)

Each Policy can be associated with multiple Policy Details record (One to many)

Policies.P\_ID and Policy Details.P\_ID (Foreign Key Constraint)

Multiple Policy Details records can be associated with one policy.

Policy Details.P\_ID and Policies.P\_ID (Foreign Key Constraint)

One Policy can be associated to multiple Claims (One To Many)

Policies.P\_ID and Claims.P\_ID (Foreign Key Constraint)

Multiple Claims can be associated with one Policy (Many To One)

Claims.P\_ID, refers to Policies.P\_ID (Foreign Key Constraint)

Each Underwriter processes multiple Claims (One to many)

Underwriter.EMP\_ID and Claims.EMP\_ID (Foreign Key Constraint)

Multiple Claims can be processed by only one Underwriter.

Claims.EMP\_ID and Underwriter.EMP\_ID (Foreign Key Constraint)