E-R Diagram for Insurance Company
            First_name
                                                                 ...

List Of Tables:-

Main Table :- Relation Table:-

1) Customer Table 1) **Cust\_Address Table**

2)Address Table 2) **Cust\_car Table**

3)Agent Table 3) **Cust\_Policy table**

4)Policy Table 4) **Cust\_Accident Table**

5)Payment Table 5) **Agent\_cust Table**

6)Car Table 6) **Agent\_Address table**

7)Accident Table 7) **Policy\_car Table**

8) **Accident\_Car Table**

1)Customer Table:-

This Table contains the information of Customer.

The primary Key for this table is Cust id.

The foreign Key for this table is Agent Id(because only 1 agent will be there for 1 customer)

|  |
| --- |
| **Customer Table** |
| cust\_id(PK) |
| SSN |
| FirstName |
| LastName |
| DL\_Num |
| Age |
| PhoneNumber |
| DOB |
| Agent\_id(FK) |

1.1)Cust\_Address Table:-

This Table contain the information about the customer address detail.

Since 1 customer can have multiple address we have created a new Table:- Cust\_Address Table

The primary Key for this Table is Address\_id

|  |
| --- |
| **Cust\_Address table** |
| Address\_id(PK) |
| Cust\_id(FK) |

1.2) Cust\_car Table:-

This Table contain the information about the customer car detail

Since 1 customer can have multiple car we have created a new Table:- Cust\_car Table

The primary Key for this Table is Address\_id

|  |
| --- |
| **Cust\_car Table** |
| VIN(PK) |
| cust\_id(FK) |

1.3) Cust\_Policy table

This Table contain the information about the customer Policy detail

Since 1 customer can have multiple policy we have created a new Table:- Cust\_Policy Table

The primary Key for this Table is Policy\_num(PK)

|  |
| --- |
| **Cust\_Policy table** |
| Policy\_num(PK) |
| Cust\_id(FK) |

1.4) **Cust\_Accident Table**

This Table contain the information about the customer Accident detail

Since 1 customer can have multiple policy we have created a new Table:- Cust\_Accident Table

The primary Key for this Table is Report\_Num(PK)

|  |
| --- |
| **Cust\_Accident Table** |
| Report\_Num(PK) |
| Is\_Fault |
| cust\_id(PK) |

2)Address Table:- This Table contains the address list

The primary Key of this table is Address\_id

|  |
| --- |
| **Address Table** |
| Address\_id(PK) |
| StreetAddress |
| State |
| City |
| Country |
| ZipCode |

3)Agent Table:- This Table Contain agent list

The Primary Key for this Table is Agent\_id

Agent Table is linked with Customer Table and address Table

1Agent can have multiple address

1Agent can have multiple customer

So no foreign key for this Table

|  |
| --- |
| **Agent Table** |
| Agent\_id(PK) |
| FirstName |
| LastName |
| Phone |

3.1) **Agent\_cust Table**

This Table contain the information about the Agent customer detail

Since 1 Agent can have multiple Customer we have created a new Table:- **Agent\_cust Table**

The primary Key for this Table is Cust\_id(PK)

|  |
| --- |
| **Agent\_cust Table** |
| Cust\_id(PK) |
| Agent\_id |

3.2) **Agent\_Address table**

This Table contain the information about the **Agent Address table**

Since 1 Agent can have multiple Address we have created a new Table:- **Agent Address table**

The primary Key for this Table is Address\_id(PK)

|  |
| --- |
| **Agent\_Address table** |
| Address\_id(PK) |
| Agent\_id(FK) |

4)Policy Table:-This Table contains the policy details and also it contains information about car detail , customer detail and Payment Detail .

The Primary key of the table is Policy\_Num.

The Foreign key for this table are VIN(FK), Payment\_Number(FK), cust\_id(FK)

|  |
| --- |
| **Policy Table** |
| Policy\_num(PK) |
| Policy\_type |
| Coverage |
| Deduction |
| Term Policy |
| Issued\_Date |
| VIN(FK) |
| Payment\_Number(FK) |
| cust\_id(FK) |

5)Car Table:- This Table contains the information about the car table and it also contain information about customer detail.

The PK for this Table is VIN(PK)

The FK for this Table cust\_id,Policy\_num

|  |
| --- |
| **Car Table** |
| VIN(PK) |
| MAKE |
| Model |
| Door |
| LIC\_Plate |
| color |
| Year |
| cust\_id(FK) |

5.1) **Policy\_car Table**

This Table contain the information about the **Policy and car table**

Since 1 car can have multiple Policy we have created a new Table:- **Policy\_car Table**

The primary Key for this Table is Policy\_num(PK)

|  |
| --- |
| **Policy\_car Table** |
| Policy\_num(PK) |
| VIN(FK) |

5.2) **Accident\_Car Table**

This Table contain the information about the **Accident and Car Table**

Since 1 car can have multiple Accident we have created a new Table:- **Accident\_Car Table**

The primary Key for this Table is Report\_Num(PK)

|  |
| --- |
| **Accident\_Car Table** |
| Report\_Num(PK) |
| VIN(FK) |
| DamageCost |
| Is \_total |

6)Accident Table:- This table contains the information about the accident Details.

The Primary key for this table is Report\_Num(PK)

Since 1 Accident can happen on only 1 customer and 1 car so foreign key for this table is cust\_id,VIN

|  |
| --- |
| **Accident Table** |
| Report\_Num(PK) |
| Date |
| cust\_id(FK) |
| VIN(FK) |

7)Payment Table:- This Table contains the information about the payment made by the policy

|  |
| --- |
| **Payment Table** |
| Payment\_Number(PK) |
| Payment Date |
| Payment Ammount |
| Policy\_num(FK) |

Important Points:-

1. 1 customer can have only 1 agent
2. 1 agent can have multiple Customers

3)1 car will have Multiple policy

4)1 car will have 1 customer

5)1 car will have multiple accident

6)1 Accident can happen only on 1 customer

7)1 Accindent can happen only on 1 car