Auto Insurance Company CRM Database Design for Policy Management Project Report



University of Connecticut

Business Analytics & Project Management

OPIM 5272 - Data Management & Business Process Modeling

Team UDBP

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Table of Contents

1.	Introduction	3
2.	Project Overview	3
3.	Business Rules and User Requirement	3
	3.1 Business Rules	3
	3.2 User Requirements	4
4.	EER Diagram	5
5.	Relational Schema	6
6.	Data Dictionary	8
7.	Output of DDL SQL Statements	14
8.	Output of DML SQL Statements	26
9.	Additional Features using PL/SQL	32
	9.1 Calculate and Print Revenue using "Cursor" and "IFTHEN" statements	32
	9.2 Audit Log using "Trigger" Command	3/

1. Introduction

This document aims to describe the relational database management of the customer relationship (CRM) for policy management in an auto insurance company. The following sections provide an overview and scope of the project, along with sections that provide business rules and user requirements. It is followed by ERD (entity relationship diagram), schema which represents a visual form of relational database followed by data dictionary (which lists all the entities, their attributes, and the relationships between different entities), SQL statements (DDL) written to CREATE TABLE, INSERT data and advanced SQL statements (DML) using JOINS. The last section describes a few additional features developed using the cursor, IF..THEN and trigger features in PL/SQL.

2. Project Overview

This project is to create a database for Customer Relationship Management (CRM) of an Auto insurance company to drive insightful analysis about policy management. This database will consist of key entities like Policy coverage, Vehicle details, Driver details, Payment details, Incident records, etc. We intend to reduce the redundancy in the data and make it more efficient for use on websites by the policyholders of the insurance company.

3. Business Rules and User Requirement

3.1 Business Rules

An auto insurance company wants to build a database to manage details of policies, quotes, customers, insured vehicles, billing procedure, incidents, claims, etc.

- 1. Customers are identified by unique customer id and the company wants to store the first name, middle name, last name, address, phone no, email, and gender of all the customers. Each customer will have one policy only.
- 2. A single policy can insure multiple family members. Each policy will have a unique policy number with amendment options. The company offers a default term of 6 months with an option to extend for as long as 12 months and further renewals or amendments. Policy's effective date and expiry date will be recorded. The company offers 3 distinct product types (basic, silver and gold) with predefined liabilities and coverage details of bodily injury, property damage, comprehensive, collision and emergency bundled in them. A customer can choose any of the offered 3 packages over a period of time.
- 3. Vehicle is identified by its unique VIN number and other details like make, model, year, color, miles, usage type (commercial/personal), registration number etc. collected from customers. A vehicle may have one or more loans on it, which are stored as Lien details with the holder's name and record date, in the database. Each policy will have one insured vehicle. A vehicle may be insured under different policies over the period of time.

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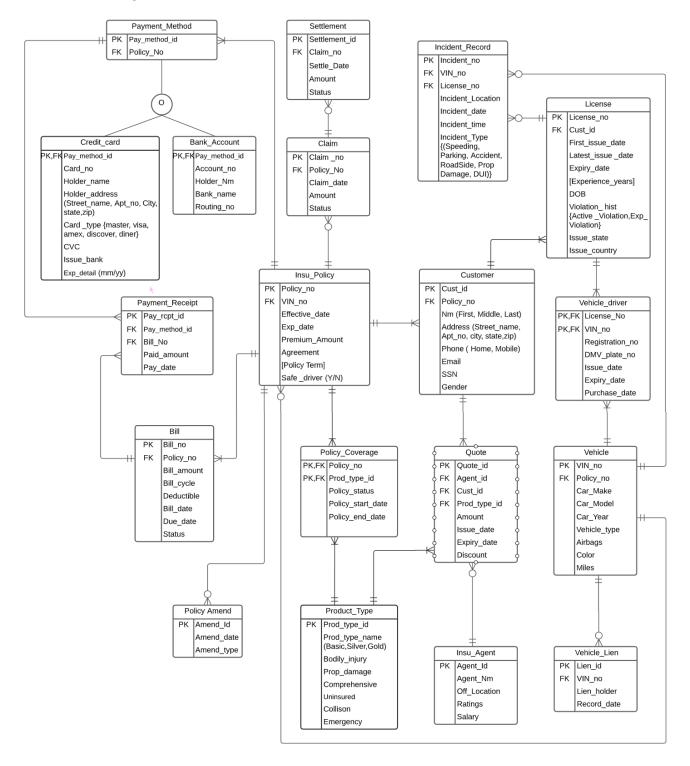
- 4. Multiple drivers of a vehicle may be insured under the same policy. License details of all drivers will be stored in the database. License details like first issue date, latest issue date, expiry date, issue state will be tracked. Date of birth of a customer will also be stored from the license. Records of all licenses (old & new, US & international) issued to a customer will be stored by the company.
- 5. Users/potential customers can apply for quotes (valid for 14 days) in office / phone. A customer can ask for multiple quotes for the same vehicle before finalizing the policy purchase. Discounts are offered during quote generation. One agent will be associated with one quote generation at a time with chosen product type, quote issue and expiry date.
- 6. Bill details of each policy will be stored in the database with amount, cycle, issue date, due date, deductible, and status. A policy will have bills as per the cycle selected. A bill will have a distinct bill number with one insurance policy. Receipts will be generated every time a bill is paid with a paid amount and date stored with it.
- 7. Company accepts payment by both credit card and bank account. Company needs to store card details like card number, card type, cvc, issue bank and expiry details. Bank account no, bank name and routing number are also stored in the company database as a bill can be paid by any type of payment methods over a period of time.
- 8. Company will keep track of all the claims (with unique claim number) associated with a policy with date of claim, type of damage, amount of claim. There is no upper limit on the number of claims attached to a policy. Settled claims will be stored separately with amount and date of settlement.

3.2 User Requirements

- 1. Users can choose to pay bills (premium and/or claims) either from credit card or bank account in single or recurring bill cycles.
- 2. Users can apply for claims for incidents like parking lot damage, accidents, roadside assistance, prop damage etc. and track it with a unique claim number.
- 3. Users can apply for auto insurance with either a US or international driving license.
- 4. Users can select an agent (office based) based on agent ratings.
- 5. A user can easily switch between product types as a unique amendment id is generated for each change. Policy renewals are also easily done.
- 6. Users can switch banks for loan and update the information with the unique lien id.
- 7. A user can benefit from the company's safe driver policy and earn a considerable discount if they meet the criteria.

4. EER Diagram

The EER diagram for this database is shown below.



5. Relational Schema

The relational schema for all tables is in 3 NF form. It is shown below:

Customer	Cust_Id First_Nm Middle_Nm Last_Nm Street_Name Apt_No City State Zip Mobile_Phone Home_Phone	Email	Gender	SSN
Insu_Policy	Policy_No Agreement Effective_Date Expiration_Date Premium_Amount Policy_Term Safe_Drive (Y/N)			
Policy_Amend [Amned_ld Amend_date			
Ammend_type [Policy_no Addition Deletion Renewal			
Policy_Coverage	Policy_No Prod_type_Id Policy_Status Policy_start_date Policy_End_Date			
Product_Type	Prod_Type_Id Bodily_Injury Prop_Damage Comprehensive Uninsured Collison Emergency			
Product_Type_Name [Prod_Type_Id Basic Silver Gold			
Quote	Quote_Id Amount Issue_Date Expiry_Date Discount			
Insu_Agent	Agent_Id Agent_Nm Ratings Off_Location Salary			
Vehicle	VIN_no Car_Make Car_Model Car_year Vehicle_type Miles Airbags Color			
Vehicle driver	License_No VIN_No Registration_No DMV_Plate_No Issue_Date Expiry_Date Purchase_Date			
Vehicle_Lien	Lien_ld VIN_no Lien_holder Record_date			
License_Informantion	License_No Issue_Date Expiry_Date No_of_Years Date_of_Birth State_of_Issue US_License International_License			
Violation_History	License_No Active_Violation Expired_Violation			

Incident_type	Incident_No Speeding Parking Accident RoadSide Property_Damage DUI
Incident_record	Incident_No Incident_Date Inciident_Time
Payment_Receipt	Pay_rcpt_Id Paid_Amount Pay_Date
Payment_Method	Pay_method_ld Policy_No
Credit_Card	Pay_method_Id
Card_Type	Pay_Method_Id Master Visa Amex Discover Diner
Bank_Account	Pay_Method_Id Checking_Account_No AccountHolder_Name Account_Bank Routing_No
Claim	Claim_No Claim_Date Amount Status
Settlement	Settlement_Id Settle_Date Amount Status Calim_no
Bill	Bill_No Status Bill_Cycle Bill_Amount Deductible Bill_Date Due_date

6. Data Dictionary

This section describes the details of the Entities and Attributes of the logical database design.

OBJECT NAME	OBJECT TYPE	OBJECT DEFINITION
Insu_Policy	Entity	Contains information on auto insurance policy and its related terms
Policy_no (Primary Key)	Attribute	Unique identification no. for entity Insu_policy
Effective_date	Attribute	First Date of policy coming into effect
Exp_date	Attribute	Policy expiration date
Policy_term	Attribute	Policy duration-Derived value from policy issue date and expiration date
Safe_drive	Attribute	Does the driver qualify for a discount as a safe drive. It is applicable if policyholder subscribed for SafeDrive option
Agreement	Attribute	Legal policy document with contract b/w customer and insurance company.
Premium_amount	Attribute	Amount to be paid by the customer for insurance policy
Insu_Policy > PolicyAmend	Relationship	One policy may have no or many amendments (renewal, change, cancellation) during the policy term. One policy amendment is always referring to one and one policy only.
Insu_Policy > PolicyCoverage	Relationship	One policy may be one or many Product types selected by Policyholder during policy term. It is linked to associate entity PolicyCoverage. A given PolicyCoverage is linked to one and only one policy.
Insu_Policy > Vehicle	Relationship	One policy is linked to one and one vehicle only. The insured vehicle may have zero or many different policies over the period of time.
Insu_Policy > Customer	Relationship	One policy has one primary insured person and may have more drivers added. The primary insured person to have one policy only.
Insu_Policy > Bill	Relationship	One policy can have 1 or many Bills. One bill is linked to one and one policy only.
Insu_Policy > Claim	Relationship	One policy may have zero or many Claims. One Claim is linked to one and one policy only.
Insu_Policy > Payment Method	Relationship	One policy may have zero or many Payment Methods associated. One PaymentMethod is linked to one and one policy only.
Customer	Entity	Contains client details on demographics
Cust_ Id (Primary Key)	Attribute	The customer entity is uniquely identified by CustomerID
Nm(First,middle, last)	Attribute	First, Middle and last name of customer soliciting the policy

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Address	Attribute	Complete postal address of customer (First line, Second line, City, State, Zip)		
Phone	Attribute	Customer's phone number (Home, Mobile, Office)		
Email	Attribute	Customer's email id		
SSN	Attribute	Customer's SSN no- saved safely in database		
Gender	Attribute	Customer's gender		
Customer>	Relationship	One customer may have one or many US driving license		
License		information over a period of time. But for a given policy only one active US driving license information will be used. Each LicenseInformation is associated with one and only Customer.		
Customer>	Relationship	1:M Relationship. One quote is specific to one customer and		
Quote		one customer can get multiple quotes over time.		
Product_type	Entity	Contains details about the different Insurance Product Types		
		with varying coverage limits.		
Product_type_ID	Attribute	The Product Type entity is uniquely identified by Product Type		
(Primary Key)		ID.		
Product_type_	Attribute	Name of the 3 product types (pre-bundled) offered by the		
name		company - Basic, Silver, Gold		
Bodily Injury	Attribute	 Bodily injury coverage limit for different product type are: Basic- limit of max \$25,000 each person/\$50,000 each accident; Silver - limit of \$25,000 each person/\$50,000 each accident Gold- limit of \$50,000 each person/\$100,000 each accident. 		
Prop_Damage	Attribute	Property damage liability coverage; Basic- limit of \$25,000 each accident; Silver- limit of \$25,000 each accident; Gold- limit of \$25,000 each accident		
Uninsured	Attribute	 Basic- limit of \$25,000 each person/\$50,000 each accident Silver- limit of \$25,000 each accident Gold- limit of \$50,000 each person/\$100,000 each accident 		
Comprehensive	Attribute	Comprehensive coverage; Not offered in basic plan; Silver- limit of Actual cash value with deductible of \$500; Gold- Actual cash value with deductible of \$100		
Collison	Attribute	 Collision coverage; Not offered in basic plan; Silver- limit of Actual cash value with deductible of \$500 Gold- Actual cash value with deductible of \$300 		
Emergency	Attribute	Emergency;Not offered in basic;		

Silver- Emergency road assistance; Gold- Emergency road assistance Product Type -- > Relationship One product type may be associated with many Policy **Policy Coverage** Coverage. For a particular Policy Coverage at any given time will have only one Product Type. Product type---Relationship One product type can have multiple quotes and one specific >Quote quote is linked to a particular product type Policy_Coverage Associative Associative entity between Policy and product type- Details Entity of the product type and coverage selected by customer Policy no (PK, FK) Composite Key Used as composite primary key Product type ID Composite Key Used as composite primary key (PK, FK) Policy status Attribute Status of policy (Issued/expired) Initiation date of the current policy purchased Policy start date Attribute Policy end date Attribute Expiration date of the current policy purchased Policy_Amend **Entity** Contains information on changes in policy Amend ID Attribute Unique policy ids (Primary key) Ammend date Attribute Date amendment effective from Type of amendment chosen - Renew/ Addition/ Deletion Ammend type Attribute License **Entity** Lists down information and history about the License details of the driver. Unique License number License no. Attribute (Primary Key) First Issue date Attribute First issue date of License Latest Issue date Attribute Most recent issue date of License Expiry date Attribute Date of expiry of License Experience years Attribute Tot no. of years of driving experience DOB Attribute DOB of the license holder Violation hist Record of all violations associated with the License Holder Attribute Issue State Name of the state where License was issued Attribute Issue Country Country of License issuance, whether domestic in US or Attribute international License ----> Relationship 1:M from license to vehicle driver which is an associative entity between license and vehicle Vehicle driver Mandatory one to optional many from license info to incident License ---> Relationship Incident record record; that is there may be none or many incidences on one license id but a particular incident (incident no) will be associated with one license id only Incident_Record **Entity** Gives detailed information about any incident/violation related to the policy and License holder. Attribute Unique Incident number for each incident Incident no (Primary key) Incident Location The actual area/location where the incident occured. Attribute Incident_Date Attribute Date on which the incident occured

Incident Time Attribute Time at which the incident took place Attribute Lists the major categories of incidents and violations that can Incident_type (Speeding, Parking, be associated with a particular event for which claim is raised Accident, Roadside, Property Damage) Incident Record---Relationship One Incident record can only be associated with only one >Vehicle Vehicle and one vehicle can have one or more records over the time Contains information about insured vehicles. Vehicle **Entity** VIN no (Primary Attribute Unique identification number for a vehicle-Vehicle key) identification number (VIN) is a unique code that is assigned to every motor vehicle when it's manufactured. Manufacturer of the vehicle Car Make Attribute Name of the vehicle model Car Model Attribute Car_Year Attribute Year of manufacturing of the vehicle Color Color of the vehicle Attribute Miles Total no. of miles accumulated on vehicle Attribute Vehicle type Type of vehicle used whether it's for personal use or of Attribute (Personal/Commer commercial use. cial) Airbags Attribute If safety feature in the form of airbag is present or not present/absent Vehicle ---> Vehicle Relationship 1:Many relation from vehicle to vehicle driver which is an driver associative entity between license information and vehicle Vehicle ---> Relationship A vehicle can have one or more Liens registered over a period Vehicle lien of time and one lien can be assigned to only one vehicle Vehicle_Lien **Entity** Describes mortgage details of the vehicle to be insured Uniquely identifies the lien records of the vehicle Lien ID Attribute (Primary key) Lien holder Attribute Lists the specific bank/mortgage institution's information Record date Attribute Date of incorporation of lien Vehicle_Driver Associative entity b/w License information and driver **Associative** entity License No. Reference from License information table Composite key (PK,FK) VIN no (PK,FK) Composite key Reference from Vehicle table Registration no Attribute Registration no. assigned to the vehicle DMV plate no Attribute Plate no. issued by the state DMV Issue date Attribute First date of issue of registration no. Expiry date Attribute Date of expiry of registration no. Purchase date Attribute Date of purchase of vehicle Insu_Agent **Entity** Information of agent soliciting policy to the client. Agent ID (Primary Uniquely identifies the Entity agent Attribute key)

Name of the employee/agent soliciting the policy to the client Agent nm Attribute Off_location Attribute Which work location is the agent operating from, either Online or from Office Ratings Attribute What is the rating of the agent based on customer reviews Fixed Salary of the agent Salary Attribute 1:M Relationship. One agent can generate multiple quotes Insu_Agent---Relationship and one quote will be specific to an agent >Quote Quote Contains information on different quote amounts for **Entity** different packages. Quote ID Attribute Uniquely identified by Quote ID (Primary key) Amount Attribute Quotes for different type of pre-bundled packages eg-Basic, Silver and Gold Issue_date Attribute First issue date of quote generated Expiry date of issued quote Expiry date Attribute Discount Types of discount given to the customer either flat rate Attribute discount or via bundled packages Contains the details of various payment methods provided Payment_method **Entity** (Supertype) by the customer. Pay_method_ID Uniquely identified by Payment Method ID which lists Attribute (Primary key) method of payment towards policy. Payment Method Relationship 1:Many from Payment Method to Payment Receipt; that is a Payment Method (like credit card) can be used to pay for one or many bills and one or many receipts are generated. One Payment Receipt generated Payment Receipt shall be linked to one and only PaymentMethod. Credit_card Entity(Subtype) Contains credit card records used for policy payments Pay method id Attribute Reference from payment method (PK,FK) Card no 16 digit unique identification no.of card Attribute Name of the person holding the credit card. Holder name Attribute Holder address Attribute Address of the person holding the credit card. Type of card (Master, Visa, Amex, Discover, Diner) Card_type Attribute CVV The 3 digit CVV number of the credit card Attribute Issue bank Attribute Name of bank issuing credit card Exp_detail Attribute Card expiry in mmyy format. Month (2 digits) and Year (2 digits) Bank account Entity(Subtype Contains issuing bank account information Pay_method_id Attribute Reference from payment_method (PK,FK) Account No Attribute Account number of Checking account Holder nm Attribute Name of the Checking Account holder. Bank nm Attribute Name of bank where account holder have checking account Routing number of the Checking account Routing_no Attribute

Bill	Entity	Each policy will have many bills generated.

Bill	Entity	Each policy will have many bills generated.		
Bill_no	Attribute	These bills are identified by a unique Bill number.		
(Primary key)				
Bill_amount	Attribute	Amount in the generated bill		
Bill_cycle	Attribute	Cycle of bill generation(Monthly/quarterly/annualy etc)		
Bill_date	Attribute	Date of the Bill generated		
Due_date	Attribute	Final date of payment of the bill		
Deductible	Attribute	Amount of deductible as per the policy		
Status	Attribute	Status of payment (pending / paid partial / paid full)		
Bill > Payment	Relationship	1:Many from Bill to Payment Receipt; that is a Bill can have		
Receipt		one or many Payment Receipts. One generated Payment		
		Receipt shall be linked to one and only one Bill.		
Payment_receipt	Entity	Associative entity between payment method and bill and		
		lists down details of receipt of payment		
Pay_rcpt_ Id	Attribute	This is uniquely to identify receipt.		
(Primary key)				
Paid_amount	Attribute	Amount paid by policyholder		
Pay_date	Attribute	Date the payment is done		
Claim	Entity	Contains information on the type of claims generated on		
		this policy.		
Claim_No	Attribute	This is uniquely identified by Claim Number.		
(Primary key)				
Claim_date	Attribute	Date of claim		
Amount	Attribute	Amount of claim		
Status	Attribute	Status of claim (Approved / Rejected)		
Claim>	Relationship	One claim may have zero or many settlements. One		
Settlement		settlement will be related to one claim only.		
Settlement	Entity	Lists the settlement record associated with a particular		
		claim.		
Settlement_id	Attribute	This is uniquely identified by Settlement ID.		
(Primary key)				
Settle_ date	Attribute	Date of settlement		
Amount	Attribute	Amount of settlement		
Status	Attribute	Status of settlement (Pending / Paid)		

7. Output of DDL SQL Statements

In this section, the details of the various entities are shown. The output of the DESCRIBE and SELECT * FROM <entity> are shown.

Entity 1: Customer

Note: Total of 14 customers information was stored in this table. As there are many attributes, the output of SELECT is shown in 2 split tables.

Name	Null?		Туре
CUST_ID	NOT	NULL	NUMBER (38)
POLICY_NO			VARCHAR2 (200)
FIRST_NM			VARCHAR2 (200)
MIDDLE_NM			VARCHAR2 (200)
LAST_NM			VARCHAR2 (200)
ADDRESS			VARCHAR2 (200)
APT_NO			VARCHAR2 (20)
CITY			VARCHAR2 (200)
STATE_NM			VARCHAR2 (200)
ZIP			VARCHAR2 (20)
PHONE			VARCHAR2 (20)
MOBILE			VARCHAR2 (20)
EMAIL			VARCHAR2 (200)
SSN			VARCHAR2 (20)
GENDER			VARCHAR2 (200)

	CUST_ID	<pre> FIRST_NM </pre>		LAST_NM		∯ APT_NO	⊕ CITY	STATE_NM
1	1501 89001	Tom	Mathew	Cruise	47 W. Pulaski Rd	(null)	Joliet	IL
2	1502 89002	Angelia	Rachel	Green	2111 Barnes Street	(null)	Orlando	FL
3	1503 (null)	Amanda	Flower	Fisher	4172 Brooklyn Street	1E	Berryville	VA
4	1604 89003	Edward	(null)	Mills	1030 Douglas Dairy Road	1567	Gate City	VA
5	1705 (null)	Grace	Gabrielle	Garcia	1224 Blue Spruce Lane	(null)	Odenton	MD
6	1706 (null)	Evelyn	Emily	Sanders	2494 Caldwell Road	7E	Rochester	NY
7	1707 (null)	Robert	Lawrence	Gross	2545 Maple Lane	8G	Huntsville	AL
8	1708 89004	Heather	Gale	Urso	3803 Oak Street	(null)	Syracuse	NY
9	180989005	Robert	Smith	Bryson	3141 Coppel Street	2B	New York	NY
10	1810 89005	Madelyn	Jacob	Bryson	3142 Coppel Street	2B	New York	NY
11	1811 (null)	Duane	Biggs	Lewis	3615 Sugar Camp Road	(null)	Owatonna	MN
12	1912 (null)	Curt	Jake	Brown	49 Heliport Loop	(null)	Bloomington	IN
13	1913 89006	Julie	Harris	Wright	4374 Bagwell Avenue	(null)	Morrisville	PA
14	1914 89006	Sam	Hansen	Wright	4374 Bagwell Avenue	(null)	Morrisville	PA

 MOBILE ⊕ SSN 60435 481-629-2343 466-647-4324 tcruise@hotmail.com 499-05-0979 Male 32810 407-287-7033 407-376-1649 agreen@yahoo.com 771-18-5685 Female 22611 540-955-3503 757-662-5541 amanda@gmail.com 225-86-9885 Female 24251 276-452-0623 276-594-9430 emills@hotmail.com 230-92-3262 Male 21113 410-305-6002 443-277-5871 grace20@yahoo.com 216-37-0024 Female 14608 585-309-7538 516-263-7391 sanders@outlook.com 061-30-7132 Female 35816 256-508-9037 256-337-8382 grossg@alabama.com 423-53-8790 Male 13202 315-333-9223 315-440-9802 yoe4mpunki8@hotmail.com 093-62-0995 Female 11361 718-819-7591 347-319-9576 bry03@gmail.com 111-09-1984 Male 11361 718-819-7591 347-310-6336 madel19@gmail.com 552-15-4537 Female 55060 507-623-8123 507-475-5746 dlewis@yahoo.com 471-10-8455 Male 47404 812-652-2696 812-688-0402 04curt.b@hotmail.com 333-64-7419 Male 19067 352-572-8362 215-932-9418 brown4418@yahoo.com 261-19-5471 Female 19067 352-572-8362 619-992-9425 sam11@gmail.com 623-04-6990 Male

Entity 2: License

Note: For each of 14 customers, their License information is stored in this License table.

Name	Nul	1?	Туре
LICENSE_NO	NOT	NULL	NUMBER (38)
CUST_ID			NUMBER (38)
FIRST_ISSUE_DATE			DATE
LATEST_ISSUE_DATE			DATE
EXPIRY_DATE			DATE
DOB			DATE
VIOLATION_HIST			NUMBER (38)
ISSUE_STATE			VARCHAR2 (10)
ISSUE_COUNTRY			VARCHAR2 (14)

	CUST_ID	\$ LATEST_ISSUE_DATE		DOB			
1 872904534	150123-SEP-00	31-JUL-19	31-JUL-24	11-JUN-82	0	IL	USA
2 430982367	1502 08-SEP-89	01-MAR-18	25-FEB-23	01-JAN-71	3	FL	USA
3 615471827	150323-FEB-91	06-MAY-20	30-OCT-22	16-DEC-72	0	VA	USA
4 639164064	1604 08-JAN-11	25-OCT-19	23-OCT-24	25-SEP-92	2	VA	USA
5 120934874	1705 24-JUL-83	27-MAR-18	31-JAN-24	27-JAN-65	0	France	International
6 763290487	170611-DEC-98	11-SEP-18	10-AUG-21	12-JUL-80	1	NY	USA
7 912376536	170708-APR-88	24-NOV-19	20-SEP-23	25-DEC-69	0	Costa Rica	International
8 518221360	1708 13-JAN-98	08-AUG-18	12-JAN-22	01-OCT-78	1	NY	USA
9 619852978	180920-NOV-07	21-NOV-18	30-NOV-22	19-APR-88	0	NY	USA
10 852978431	1810 17-MAR-12	28-NOV-19	16-FEB-23	04-DEC-91	0	NY	USA
11 875465824	1811 09-JAN-98	28-JAN-19	25-JUL-23	27-SEP-78	3	MN	USA
12 621567963	1912 25-OCT-77	25-MAR-18	17-SEP-02	13-JUL-59	2	IN	USA
13 447885933	1913 08-DEC-01	15-JAN-18	21-SEP-23	19-JAN-83	0	PA	USA
14 135697465	1914 04-DEC-86	23-MAR-18	31-MAY-22	18-MAY-68	0	PA	USA

Entity 3: Vehicle

Note: There are 12 vehicles for which quotation was requested. Two of the vehicles are driven by 2 customers). Thereby for 14 customers, there is 12 vehicles only.

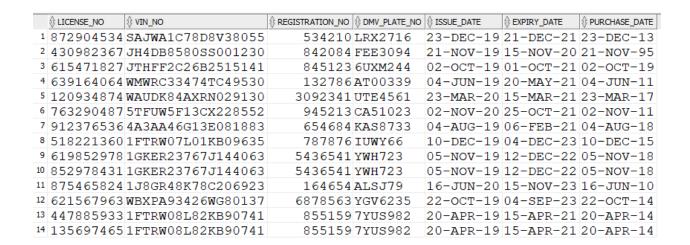
'n				
	AIN NO	NOT	NULL	VARCHAR2 (200)
	POLICY_NO			VARCHAR2 (200)
	CAR_MAKE			VARCHAR2 (200)
	CAR_MODEL			VARCHAR2 (200)
	CAR_YEAR			NUMBER (38)
	VEHICLE_TYPE			VARCHAR2 (200)
	AIRBAGS			NUMBER (38)
	COLOR			VARCHAR2 (200)
	MILES			NUMBER (38)
1	l			

	∜ VIN_NO	₱ POLICY_NO	CAR_MAKE	CAR_MODEL	CAR_YEAR			COLOR	∯ MILES
1	SAJWA1C78D8V38055	89001	Jaguar	ХJ	2013	Sedan	6	Black	23014
2	JH4DB8580SS001230	89002	Acura	Integra	1995	Sedan	2	Red	125671
3	JTHFF2C26B2515141	(null)	Lexus	IS	2011	Sedan	6	White	56743
4	WMWRC33474TC49530	89003	MINI	Cooper	2004	Sedan	6	Green	76423
5	WAUDK84AXRN029130	(null)	Audi	Q5	2016	SUV	6	Grey	23505
6	5TFUW5F13CX228552	(null)	Toyota	Tundra	2010	Pickup	2	Brown	96435
7	4A3AA46G13E081883	89004	Honda	Accord	2012	Sedan	2	Black	122345
8	1GKER23767J144063	89005	Subaru	Legacy	2015	Sedan	2	Blue	88907
9	1FTRW07L01KB09635	(null)	Ford	F-450	2013	Pickup	3	Grey	105662
10	1J8GR48K78C206923	(null)	BMW	550i	2018	Coupe	4	White	26735
11	WBXPA93426WG80137	89006	Toyota	Camry	2014	Sedan	2	Tan	77875
12	1FTRW08L82KB90741	(null)	Jeep	Sahara	2016	SUV	4	Black	66526

Entity 4: Vehicle driver

Note: This is associate entity between the Vehicle and License. Thereby there is 14 rows.

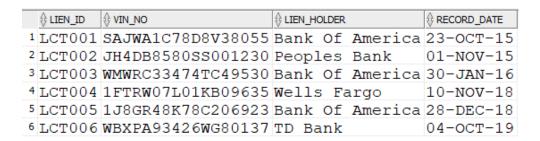
Name	Null?		Type
LICENSE_NO	поп	NULL	NUMBER (38)
VIN_NO			VARCHAR2 (200)
${\tt REGISTRATION_NO}$			NUMBER (38)
DMV_PLATE_NO			VARCHAR2 (200)
ISSUE_DATE			DATE
EXPIRY_DATE			DATE
PURCHASE_DATE			DATE



Entity 5: Vehicle Lien

Note: Out of 12 vehicles to which quotation was given, 6 of the vehicles are having lien. The bank which offered loan is stored in this table.

Name	Null?		Type		
LIEN_ID	NOT	\mathtt{NULL}	VARCHAR2 (200)		
VIN_NO			VARCHAR2 (200)		
LIEN_HOLDER			VARCHAR2 (200)		
RECORD_DATE			DATE		



Entity 6: Quote

Note: The quotations given to the 12 vehicles is stored in this table.

Name	Nul	l?	Туре		
QUOTE_ID AGENT_ID CUST_ID PROD_TYPE_ID AMOUNT ISSUE_DATE EXPIRY_DATE DISCOUNT			NUMBER(38) VARCHAR2(200) NUMBER(38) VARCHAR2(200) NUMBER(6,2) DATE DATE NUMBER(5,2)		
Name	Nul	L?	Туре		

				₱ PROD_TYPE_ID			⊕ EXPIRY_DATE	
1	1250	4-59944	1501	P101B	1200	23-0CT-15	07-N0V-15	10
2	8037	9-14206	1502	P101B	1224	01-N0V-15	16-N0V-15	5.5
3	3209	(null)	1503	P102S	456	03-DEC-15	18-DEC-15	3
4	2734	9-14206	1604	P102S	960	30-JAN-16	14-FEB-16	0
5	5489	4-59944	1705	P103G	1345	03-FEB-17	18-FEB-17	5
6	4965	4-59944	1706	P102S	567	06-JUN-17	21-JUN-17	10
7	1252	(null)	1707	P101B	1272	18-0CT-17	02-N0V-17	3
8	8039	4-59944	1708	P103G	732	24-SEP-17	09-0CT-17	0
9	3229	9-14206	1809	P101B	956	10-N0V-18	25-N0V-18	5
10	2727	4-59944	1811	P101B	657	28-DEC-18	12-JAN-19	10
11	5492	9-14206	1912	P102S	540	04-0CT-19	19-0CT-19	3
12	4972	4-59944	1913	P102S	1224	27-N0V-19	12-DEC-19	0

Entity 7 – Agent

Note: The information of the insurance Agent who generated the quote is stored in this table.

Name	Null?		Туре		
AGENT_ID AGENT_NM LOCATION RATINGS SALARY	NOT	NULL	VARCHAR2(200) VARCHAR2(200) VARCHAR2(200) NUMBER(38) VARCHAR2(200)		

	∯ AGENT_ID			⊕ RATINGS	♦ SALARY
1	9-14206	George Robinson	MA	5	\$85,000
2	4-59944	Linda Kendrick	WI	4	\$90,000

Entity 8 - Insu_Policy

Note: Out of the 12 quotes given for 12 vehicles, only 6 of the customers were interested in buying the policy. 6 more customers did not buy any policy. Thereby this table have the information of the 6 policies issued by insurance company.

Name	Null?		Туре
POLICY_NO	NOT	NULL	VARCHAR2(200)
VIN_NO			VARCHAR2(200)
EFFECTIVE_DATE			DATE
EXP_DATE			DATE
PREMIUM_AMOUNT			NUMBER(8,2)
AGREEMENT			VARCHAR2(200)
SAFE_DRIVER			VARCHAR2(200)
AMEND_ID			VARCHAR2(200)
AMEND_DATE			DATE
AMEND_TYPE			VARCHAR2 (200)

	₱ POLICY_NO	∜ VIN_NO	\$ EFFECTIVE_DATE	⊕ EXP_DATE	₱ PREMIUM_AMOUNT		\$ SAFE_DRIVER			
1	89001	SAJWA1C78D8V38055	23-0CT-19	22-0CT-20	925.97	1 year	Υ	89001-05	17-0CT-19	Renewal
2	89002	JH4DB8580SS001230	01-N0V-19	31-0CT-20	944.48	1 year	N	89002-05	26-0CT-19	Renewal
3	89003	WMWRC33474TC49530	28-JAN-20	27-JAN-21	938.31	1 year	N	89003-05	18-DEC-19	Renewal
4	89004	4A3AA46G13E081883	17-0CT-20	17-0CT-21	1033.18	1 year	N	89004-04	17-0CT-20	Renewal
5	89005	1GKER23767J144063	26-SEP-20	28-MAR-21	389.01	6 months	Υ	89005-07	26-SEP-20	Renewal
6	89006	WBXPA93426WG80137	16-0CT-20	17-APR-21	1046.52	6 months	Υ	89006-03	16-0CT-20	Renewal

Entity 9 - Policy_Coverage

Note: The details of the policy coverage are stored in this table.

Name	Null?	Туре
POLICY_NO		VARCHAR2 (200)
PROD_TYPE_ID		VARCHAR2(200)
POLICY_STATUS		VARCHAR2(200)
POLICY_START_DATE		DATE
POLICY_END_DATE		DATE

	⊕ POLICY_NO	⊕ PROD_TYPE_ID	⊕ POLICY_STATUS	⊕ POLICY_START_DATE	⊕ POLICY_END_DATE
1	89001	P101B	Active	23-0CT-19	22-0CT-20
2	89002	P101B	Expired	01-N0V-19	31-0CT-20
3	89003	P101B	Renewed	02-FEB-16	11-MAY-21
4	89003	P102S	Active	12-MAY-16	27-JAN-21
5	89004	P101B	Active	17-0CT-20	17-0CT-21
6	89005	P103G	Active	26-SEP-20	28-MAR-21
7	89006	P102S	Active	16-0CT-20	17-APR-21

Entity 10 - Product_Type

Note: The insurance company have 3 product offerings (Gold, Silver, Basic). The coverage / liability is different for them. The details of the coverage is stored in this table.

Name	Nul	l?	Туре
PROD_TYPE_ID	NOT	NULL	VARCHAR2(200)
PROD_TYPE_NAME			VARCHAR2(100)
BODILY_INJURY			VARCHAR2(200)
PROP_DAMAGE			NUMBER(38)
COMPREHENSIVE			VARCHAR2(200)
UNINSURED			VARCHAR2(200)
COLLISON			VARCHAR2(200)
EMERGENCY			VARCHAR2(100)

	ID PROD_TYPE_NAME	BODILY_INJURY	⊕ PROP_DAMAGE	⊕ COMPRE	HENSIVE		ED 🚯	COLLISON	V						⊕ ЕМ	ERGENCY
1 P101B	Basic	25000/50000	25000	Not Cove	red	25000/500	00 N	ot Cover	ed						Not	Covered
2 P102S	Silver	25000/50000	25000	Yes with	Deductible !	500 25000/500	00 Y	es upto	Actual	cash	value wi	th D	eductibl	e 500	Yes	Covered
3 P103G	Gold	50000/100000	25000	Yes with	Deductible :	100 50000/100	000 Y	es upto	Actual	cash	value wi	th D	eductibl	e 100	Yes	Covered

Entity 11- Policy_Amend

Note: The various amendments made (renewal or the change of product coverage) to the policies are stored in this table.

Name	Null?		Туре			
AMEND_ID	NOT	NULL	VARCHAR2 (200)			
POLICY_NO			VARCHAR2 (200)			
AMEND_DATE			DATE			
AMEND TYPE			VARCHAR2 (200)			

	₱ POLICY_NO						
189001-01	89001	(null)	(null)				
289001-02	89001	27-OCT-16	Renewal				
3 89001-03	89001	17-OCT-17	Renewal				
489001-04	89001	17-OCT-18	Renewal				
5 89001-05	89001	17-OCT-19	Renewal				
689002-01	89002	(null)	(null)				
789002-02	89002	05-NOV-16	Renewal				
8 89002-03	89002	26-0CT-17	Renewal				
9 89002-04	89002	26-OCT-18	Renewal				
10 89002-05	89002	26-OCT-19	Renewal				
11 89003-01	89003	(null)	(null)				
12 89003-02	89003	12-MAY-16	Product	change -	Basic	to	Silver
13 89003-03	89003	17-JAN-17	Renewal				
14 89003-04	89003	07-JAN-18	Renewal				
15 89003-05	89003	28-DEC-18	Renewal				
16 89003-06	89003	18-DEC-19	Renewal				
17 89004-01	89004	(null)	(null)				
18 89004-02	89004	20-OCT-18	Renewal				
19 89004-03	89004	19-OCT-19	Renewal				
20 89004-04	89004	17-OCT-20	Renewal				
21 89005-01	89005	(null)	(null)				
22 89005-02	89005	31-MAR-18	Renewal				
23 89005-03	89005	29-SEP-18	Renewal				
24 89005-04	89005	30-MAR-19	Renewal				
25 89005-05	89005	28-SEP-19	Renewal				
26 89005-06	89005	28-MAR-20	Renewal				
27 89005-07	89005	26-SEP-20	Renewal				
28 89006-01	89006	(null)	(null)				
29 89006-02	89006	17-APR-20	Renewal				
30 89006-03	89006	16-OCT-20	Renewal				

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Entity 12: Claim

Note: The various claims done to the policies are stored in this table

Name	Null	L?	Type			
CLAIM_NO	NOT	NULL	VARCHAR2 (200)			
POLICY_NO			VARCHAR2 (200)			
CLAIM_DATE			DATE			
AMOUNT			NUMBER (10,2)			
STATUS			VARCHAR2 (200)			

		\$ POLICY_NO			
1	CL6101	89002	20-APR-16	8943	Settled
2	CL6102	89003	17-JUL-17	4152	Rejected
3	CL6103	89004	06-OCT-18	7532	Settled
4	CL6104	89004	06-OCT-19	9053	Rejected

Entity 13: Settlement

Note: If the claims are Aproved, then it goes to settlement. The status of settlement is stored in this table.

Name	Null?		Туре
SETTLEMENT_ID	NOT	NULL	VARCHAR2 (200)
CLAIM_NO			VARCHAR2 (200)
SETTLE_DATE			DATE
AMOUNT			NUMBER (10,2)
STATUS			VARCHAR2 (200)

	\$SETTLEMENT_ID	\$ CLAIM_NO	\$SETTLE_DATE			
1	SE7101	CL6101	25-APR-16	8943	Invoice	Paid
2	SE7102	CL6103	11-OCT-18	4152	Invoice	Paid

Entity 14: Incident_Record

Note: The details of any incident (like accident, parking violation, etc.) are stored in this table.

Name	Nul	l?	Туре
INCIDENT_NO	NOT	NULL	NUMBER (38)
VIN_NO			VARCHAR2 (200)
LICENSE_NO			NUMBER (38)
INCIDENT_LOCATION			VARCHAR2 (200)
INCIDENT_DATE			DATE
INCIDENT_TIME			VARCHAR2 (200)
INCIDENT_TYPE			VARCHAR2 (200)

1	INCIDENT_NO \$\frac{1}{2} VIN_NO	UICENSE_NO	INCIDENT_LOCATION			
1	982364 JH4DB8580SS001230	872904534	Stamford, CT	10-APR-16	10:11 AM	Speeding greater than 20miles limit
2	783021 WMWRC33474TC49530	430982367	Hoboken, NJ	07-JUL-17	8:30 AM	Parking in No Parking Zone
3	840268 4A3AA46G13E081883	639164064	AllenTown, PA	26-SEP-18	10:00 PM	Accident - Hit front vehicle
4	492817 4A3AA46G13E081883	639164064	Albany, NY	26-SEP-19	6:21 PM	PropertyDamage

Entity 15: Bill

Note: The details of the bill send from the company to the policy holder is stored in this table.

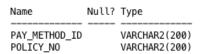
Name	Null?		Type		
BILL_NO	NOT	NULL	NUMBER (38)		
POLICY_NO			VARCHAR2 (200)		
BILL_AMOUNT			NUMBER (10,2)		
BILL_CYCLE			VARCHAR2 (100)		
DEDUCTIBLE			NUMBER (10,2)		
BILL_DATE			DATE		
DUE_DATE			DATE		
STATUS			VARCHAR2 (200)		

	∯ BILL_NO	₱ POLICY_NO	⊕ BILL_AMOUNT ⊕ B	ILL_C	YCLE		∯ BIL	L_DATE	DUE_DATE		
1	10567	89001	600 Ha	lf	Yearly	0	28-	-OCT-15	27-NOV-15	Fully	Paid
2	10568	89001	600 Ha	lf	Yearly	0	25-	APR-16	25-MAY-16	Fully	Paid
3	10569	89001	540 Ha	lf	Yearly	0	27-	-OCT-16	26-NOV-16	Fully	Paid
4	10570	89001	540 Ha	lf	Yearly	0	25-	-APR-17	25-MAY-17	Fully	Paid
5	10571	89001	513 На	lf	Yearly	0	27-	-OCT-17	26-NOV-17	Fully	Paid
6	10572	89001	513 На	lf	Yearly	0	25-	APR-18	25-MAY-18	Fully	Paid
7	10573	89001	487.35 Ha	lf	Yearly	0	27-	-OCT-18	26-NOV-18	Fully	Paid
8	10574	89001	487.35 На	lf	Yearly	0	25-	-APR-19	25-MAY-19	Fully	Paid
9	10575	89001	462.98 Ha	lf	Yearly	0	27-	-OCT-19	26-NOV-19	Fully	Paid
10	10576	89001	462.98 Ha	lf	Yearly	0	24-	APR-20	24-MAY-20	Fully	Paid
11	10577	89001	462.98 Ha	lf	Yearly	0	26-	-OCT-20	25-NOV-20	Fully	Paid
12	20645	89002	612 На	lf	Yearly	0	06-	NOV-15	06-DEC-15	Fully	Paid
13	20646	89002	612 На	lf	Yearly	500	04-	MAY-16	03-JUN-16	Fully	Paid
14	20647	89002	550.8 Ha	lf	Yearly	0	05-	NOV-16	05-DEC-16	Fully	Paid
15	20648	89002	550.8 Ha	lf	Yearly	0	04-	MAY-17	03-JUN-17	Fully	Paid
16	20649	89002	523.26 Ha	lf	Yearly	0	05-	NOV-17	05-DEC-17	Fully	Paid
17	20650	89002	523.26 Ha	lf	Yearly	0	04-	-MAY-18	03-JUN-18	Fully	Paid
18	20651	89002	497.1 Ha	lf	Yearly	0	05-	-NOV-18	05-DEC-18	Fully	Paid
19	20652	89002	497.1 Ha	lf	Yearly	0	04-	-MAY-19	03-JUN-19	Fully	Paid
20	20653	89002	472.24 Ha	lf	Yearly	0	05-	-NOV-19	05-DEC-19	Fully	Paid
21	20654	89002	472.24 Ha	lf	Yearly	0	03-	-MAY-20	02-JUN-20	Fully	Paid
22	30673	89003	480 Ha	lf	Yearly	0	02-	-FEB-16	03-MAR-16	Fully	Paid
23	30674	89003	672 Ha	lf	Yearly	0	31-	-JUL-16	30-AUG-16	Fully	Paid
	30675		547.2 Ha	lf	Yearly				03-MAR-17		
25	30676	89003	547.2 Ha	lf	Yearly				30-AUG-17		
	30677		519.84 Ha	lf	Yearly	0	01-	-FEB-18	03-MAR-18	Fully	Paid
27	30678	89003	519.84 Ha	lf	Yearly	0	31-	-JUL-18	30-AUG-18	Fully	Paid
28	30679	89003	493.85 Ha	lf	Yearly	0	01-	-FEB-19	03-MAR-19	Fully	Paid

29	30680 89003	493.85 Half Yearly	031-JUL-1930-AUG-19Fully Paid
30	30681 89003	469.16 Half Yearly	027-JAN-2026-FEB-20 Fully Paid
31	30682 89003	469.16 Half Yearly	025-JUL-2024-AUG-20Fully Paid
32	40145 89004	1272 Yearly	021-OCT-1720-NOV-17 Fully Paid
33	4015689004	1144.8 Yearly	500 21-OCT-18 20-NOV-18 Fully Paid
34	4016789004	1087.56 Yearly	500 21-OCT-19 20-NOV-19 Fully Paid
35	40178 89004	1033.18 Yearly	020-OCT-2019-NOV-20 Fully Paid
36	50231 89005	732 Half Yearly	030-SEP-1730-OCT-17Fully Paid
37	50232 89005	658.8 Half Yearly	001-APR-1801-MAY-18Fully Paid
38	50233 89005	592.92 Half Yearly	001-OCT-1831-OCT-18Fully Paid
39	50234 89005	533.63 Half Yearly	002-APR-1902-MAY-19Fully Paid
40	50235 89005	480.27 Half Yearly	002-OCT-1901-NOV-19Fully Paid
41	50236 89005	432.24 Half Yearly	002-APR-2002-MAY-20 Fully Paid
42	50237 89005	389.01 Half Yearly	002-OCT-2001-NOV-20 Pending
43	60132 89006	204 Monthly	0 18-OCT-19 17-NOV-19 Fully Paid
44	60133 89006	204 Monthly	0 17-NOV-19 17-DEC-19 Fully Paid
45	60134 89006	204 Monthly	017-DEC-1916-JAN-20 Fully Paid
46	60135 89006	204 Monthly	016-JAN-2015-FEB-20 Fully Paid
47	60136 89006	204 Monthly	015-FEB-2016-MAR-20 Fully Paid
48	60137 89006	204 Monthly	016-MAR-2015-APR-20 Fully Paid
49	60138 89006	1101.6 Monthly	020-APR-2020-MAY-20 Fully Paid
50	6013989006	1101.6 Monthly	020-MAY-2019-JUN-20 Fully Paid
51	60140 89006	1101.6 Monthly	0 19-JUN-20 19-JUL-20 Fully Paid
52	60141 89006	1101.6 Monthly	0 19-JUL-20 18-AUG-20 Fully Paid
53	60142 89006	1101.6 Monthly	0 18-AUG-20 17-SEP-20 Fully Paid
54	60143 89006	1101.6 Monthly	0 17-SEP-20 17-OCT-20 Fully Paid
55	60144 89006	1046.52 Monthly	020-OCT-2019-NOV-20 Fully Paid
56	60145 89006	1046.52 Monthly	0 19-NOV-20 19-OCT-20 Pending

Entity 16: Payment_Method

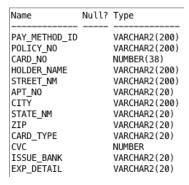
Note: The payment method used by policy holder is either credit card or the bank account. This entity "Payment_Method" is a super type and thereby no information is stored in the table. The details of the credit card and bank account is stored in the "sub type" of this entity.

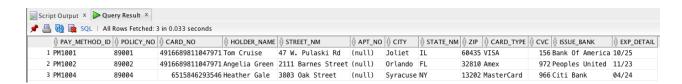




Entity 17: Credit Card

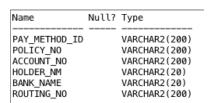
Note: This entity is "sub type" of the "Payment Method" super type. The details of the credit card are stored in the "sub type" entity.





Entity 18: Bank_Account

Note: This entity is "sub type" of the "Payment Method" super type. The details of the bank account are stored in the "sub type" entity.





Entity 19: Payment_Receipt

Note: When the payment is made to the bills sent, the receipts are generated. The details of the payment receipt generated is stored in this table.

Name	Null?		Туре	
PAY_RCPT_ID PAY_METHOD_ID BILL_NO PAID_AMOUNT PAY_DATE PAY_METHOD	NOT	NULL	NUMBER(38) VARCHAR2(200) NUMBER(38) NUMBER(10,2) DATE VARCHAR2(200)	

PAY_ROT_ID PAY_PAPENDOD Dead_ID_NO PAD_AMCANT PAY_PARCE PAY_PENDOD							
2 746333 PM1001 10570 540 28-APR-17 Credit Card 4 452984 PM1001 10571 513 30-OCT-16 Credit Card 5 526294 PM1001 10571 513 30-OCT-17 Credit Card 6 563355 PM1001 10573 487.35 30-OCT-18 Credit Card 7 746337 PM1001 10573 487.35 28-APR-18 Credit Card 8 462625 PM1001 10573 487.35 28-APR-19 Credit Card 9 452987 PM1001 10575 462.98 29-OCT-20 Credit Card 10 526298 PM1001 10577 462.98 29-OCT-20 Credit Card 10 553356 PM1002 20645 612 09-NOV-15 Credit Card 11 563356 PM1002 20646 1112 07-MAY-16 Credit Card 12 746341 PM1002 20646 1112 07-MAY-16 Credit Card 13 462627 PM1002 20647 550.8 08-NOV-16 Credit Card 14 452990 PM1002 20648 550.8 07-MAY-17 Credit Card 15 556302 PM1002 20649 523.260 8-NOV-17 Credit Card 16 563357 PM1002 20650 523.260 8-NOV-17 Credit Card 17 746345 PM1002 20651 497.1 08-NOV-18 Credit Card 18 462629 PM1002 20653 472.24 08-NOV-19 Credit Card 19 452993 PM1002 20653 472.24 08-NOV-19 Credit Card 20 526306 PM1002 20654 472.24 08-NOV-19 Credit Card 21 563358 PM1003 30673 480 05-FEB-16 Checking Account 22 746349 PM1003 30674 480 05-FEB-16 Checking Account 23 462631 PM1003 30675 547.2 04-FEB-17 Checking Account 24 452996 PM1003 30675 547.2 04-FEB-19 Checking Account 25 56330 PM1003 30679 493.85 04-FEB-19 Checking Account 26 563358 PM1003 30678 519.84 04-FEB-19 Checking Account 27 746353 PM1003 30679 493.85 03-AUG-16 Checking Account 28 462633 PM1003 30679 493.85 03-AUG-19 Checking Account 29 452999 PM1003 30680 493.85 03-AUG-19 Checking Account 20 526316 PM1003 30680 493.85 03-AUG-19 Checking Account 27 746357 PM1004 40167 1587.5624-OCT-19 Credit Card 28 462633 PM1003 30680 493.85 03-AUG-19 Checking Account 29 526316 PM1003 30680 493.85 03-AUG-19 Checking Account 29 526316 PM1003 30680 493.85 03-AUG-19 Checking Account 20 526316 PM1005 50231 592.92 04-OCT-19 Credit Card 21 462635 PM1004 40167 1587.5624-OCT-19 Credit Card 22 746365 PM1006 60132 20420-DCT-19 Checking Account 24 462637 PM1006 60132 20420-DCT-19 Checking Account 25 563368 PM1006 60134 1010.622-JUN-20 Checking Account 26 563364 PM1006 60140 1101.622-JU		PAY_RCPT_ID	PAY_METHOD_ID	BILL_NO	PAID_AMOUNT	PAY_DATE	PAY_METHOD
	1	563354	PM1001	10568	600	28-APR-16	Credit Card
452984 PM1001	2	746333	PM1001	10569	540	30-OCT-16	Credit Card
5 526294 PM1001 10572 51328-APR-18 Credit Card 6 563355 PM1001 10573 487.35 30-OCT-18 Credit Card 7 746337 PM1001 10574 487.35 28-APR-19 Credit Card 462625 PM1001 10575 462.98 30-OCT-19 Credit Card 452987 PM1001 10576 462.98 27-APR-20 Credit Card 15 526298 PM1001 10577 462.98 29-OCT-20 Credit Card 16298 PM1002 20645 61209-NOV-15 Credit Card 17 46335 PM1002 20645 61209-NOV-16 Credit Card 17 452990 PM1002 20646 550.80 P-NOV-16 Credit Card 18 452990 PM1002 20647 550.80 P-NOV-16 Credit Card 18 452990 PM1002 20648 550.80 P-NOV-17 Credit Card 19 526302 PM1002 20649 550.80 P-NOV-17 Credit Card 19 452990 PM1002 20650 523.260 PM-NOV-18 Credit Card 19 452990 PM1002 20651 497.108-NOV-18 Credit Card 19 452993 PM1002 20651 497.108-NOV-19 Credit Card 19 452993 PM1002 20653 472.24 08-NOV-19 Credit Card 20 526306 PM1002 20654 472.24 08-NOV-19 Credit Card 20 526306 PM1002 20654 472.24 08-NOV-19 Credit Card 20 526306 PM1003 30674 672 03-AUG-16 Checking Account 27 746349 PM1003 30675 547.204-FEB-17 Checking Account 28 452996 PM1003 30676 647.203-AUG-16 Checking Account 28 563359 PM1003 30676 547.204-FEB-18 Checking Account 28 563359 PM1003 30677 519.84 04-FEB-18 Checking Account 28 452999 PM1003 30680 493.85 03-AUG-19 Checking Account 28 452999 PM1003 30680 493.85 03-AUG-19 Checking Account 36 462633 PM1003 30680 493.85 03-AUG-18 Checking Account 36 563361 PM1003 30680 493.85 03-AUG-19 Checking Account 37 746357 PM1004 40156 1644.824-OCT-18 Credit Card 37 746357 PM1004 40178 1033.18 23-OCT-17 Credit Card 38 462633 PM1005 50231 73203-OCT-17 Credit Card 39 453005 PM1005 50234 533.63 05-APR-19 Credit Card 462639 PM1006 60132 20421-OCT-19 Checking Account 462639 PM1006 60132 20421-OCT-19 Checking Account 462639 PM1006 60134 20420-DEC-19 Checking Account 462643 PM1006 60134				10570	540	28-APR-17	Credit Card
563355 PM1001	4	452984	PM1001	10571	513	30-OCT-17	Credit Card
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8. Output of DML SQL Statements

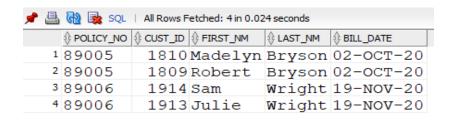
This section shows the Advanced SQL commands and outputs. There are 16 statements, out of which 10 are using the JOIN command.

Q1. What are the Policy Number, Customer ID, First and Last name, Bill Date for the current unpaid "Pending" bills?

SELECT C.POLICY_NO, CUST_ID, FIRST_NM, LAST_NM, B.BILL_DATE FROM CUSTOMER C INNER JOIN BILL B

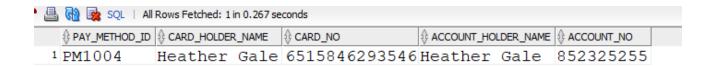
ON C.POLICY_NO = B.POLICY_NO

WHERE B.STATUS = 'Pending';



Q2. Identify Customers who have both Credit Card and Bank Account as payment methods. Then list the Card holder name, Card number, Bank Account holder name and bank Account number.

SELECT C.PAY_METHOD_ID, C.HOLDER_NAME AS CARD_HOLDER_NAME, C.CARD_NO, B.HOLDER_NM AS ACCOUNT_HOLDER_NAME, B.ACCOUNT_NO FROM CREDIT_CARD C INNER JOIN BANK_ACCOUNT B
ON C.PAY_METHOD_ID = B.PAY_METHOD_ID;



Q3. Out of all claims filed, what is the percentage that was settled?

SELECT COUNT(CASE WHEN STATUS = 'Settled' THEN 1 END)/COUNT(CLAIM_NO) *100 || '%' AS SETTLED_PERCENT FROM CLAIM;



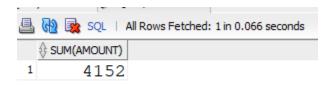
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Q4. Calculate and display the Total Net settlement amount the company paid in the last 3 years?

SELECT SUM(AMOUNT)

FROM SETTLEMENT

WHERE (SYSDATE-SETTLE_DATE)/365 < 3.0;



Q5. Identify all customers of NY state registered in 2018 with their first & last name, cust id & license no.

SELECT customer.first nm,

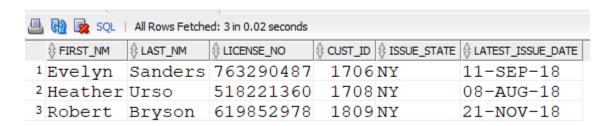
customer.last_nm,license.license_no,license.cust_id,issue_state,latest_issue_date

FROM Customer INNER JOIN License

ON license.cust id = customer.cust id

WHERE issue state = 'NY'

AND EXTRACT(YEAR FROM latest issue date) ='2018';



Q6. Retrieve the customer first and last name with license no, cust_ID, DOB, latest issue date & issuing country with international licenses (using EQUI JOIN).

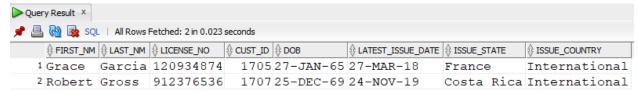
SELECT customer.First_nm, customer.Last_nm,

License.license_no,License.cust_id,License.DOB,License.latest_issue_date,License.lssue_state,License.lssue_country

FROM customer, License

WHERE license.cust id = customer.cust id

AND issue_country <> 'USA';



UConn - OPIM 5272 Data Management & Business Process Modeling

Q7. Identify the customer ID, customer full name in one column (first + last), first issue date and years of

SELECT customer.cust_id, customer.first_nm ||''|| customer.last_nm AS Customer_Name, license.First_issue_date, ROUND ((sysdate - license.First_issue_date)/365,0) AS Year_Exp FROM customer,license

total experience for the customer with maximum driving experience (using EQUI JOIN).

WHERE license.cust_id = customer.cust_id

AND first issue date IN (SELECT MIN(First issue date) FROM License);



Q8. For all policies with Silver Coverage, determine the VIN number, policy number, customer ID, customer first name, customer last name:

SELECT PC.PROD_TYPE_ID, PT.PROD_TYPE_NAME, P.VIN_NO, P.POLICY_NO, C.CUST_ID, C.FIRST_NM, C.LAST_NM

FROM INSU_POLICY P INNER JOIN CUSTOMER C

ON P.POLICY_NO = C.POLICY_NO

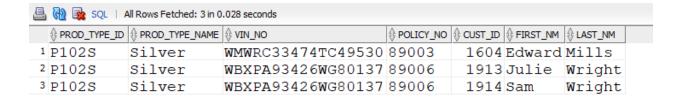
INNER JOIN POLICY COVERAGE PC

ON P.POLICY_NO = PC.POLICY_NO

RIGHT JOIN PRODUCT_TYPE PT

ON PC.PROD TYPE ID = PT.PROD TYPE ID

WHERE PC.PROD TYPE ID = 'P102S';



Q9. Identify all the VIN numbers that have a mortgage from Bank of America:

Select vin_no, lien_holder from vehicle_lien where lien_holder = 'Bank Of America';

	∜ VIN_NO		
1	SAJWA1C78D8V38055	Bank Of America	
2	WMWRC33474TC49530	Bank Of America	
3	1J8GR48K78C206923	Bank Of America	

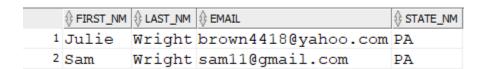
Q10. List all the license numbers with expiration in 2022

Select license_no,expiry_date from license where EXTRACT(year from expiry_date) = '2022';

	LICENSE_NO		
1	615471827	30-OCT-22	
2	518221360	12-JAN-22	
3	619852978	30-NOV-22	
4	135697465	31-MAY-22	

Q11. Display first name, last name, email ids with aliases of all customers in PA state:

Select first_nm,last_nm,email,state_nm from customer where state_nm = 'PA';



Q12. Rank the order of the most common vehicle type to purchase policy with the company.

Select vehicle_type,count(vehicle_type) AS "NO.OF POLICY PURCHASED" from vehicle group by vehicle_type order by count(vehicle_type) Desc;

	♦ VEHICLE_TYPE	NO.OF POLICY PURCHASED
1	Sedan	7
2	SUV	2
3	Pickup	2
4	Coupe	1

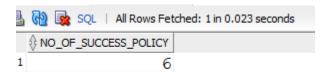
Q13. Determine the Customer ID, name of top 3 customers on the basis of premium amount?

SELECT C.CUST_ID, IP.POLICY_NO, C.FIRST_NM, C.LAST_NM, PREMIUM_AMOUNT,
RANK() OVER (ORDER BY PREMIUM_AMOUNT DESC) AS TOP_CUSTOMERS
FROM INSU_POLICY IP JOIN CUSTOMER C
ON IP.POLICY_NO = C.POLICY_NO
WHERE ROWNUM <4;

	CUST_ID	₱ POLICY_NO	∯ FIRST_NM	LAST_NM	♦ PREMIUM_AMOUNT	↑ TOP_CUSTOMERS
1	1502	89002	Angelia	Green	944.48	1
2	1604	89003	Edward	Mills	938.31	2
3	1501	89001	Tom	Cruise	925.97	3

Q14. How many quotes (given to potential customers) were converted into policies successfully?

SELECT COUNT(QUOTE_ID) AS NO_OF_SUCCESS_POLICY FROM CUSTOMER C JOIN INSU_POLICY IP ON C.POLICY_NO = IP.POLICY_NO JOIN QUOTE Q ON C.CUST_ID = Q.CUST_ID;



Q15. Provide the customer id, customer first name and last name whose claim was "rejected"?

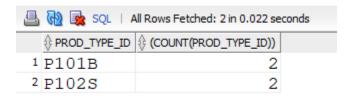
```
SELECT CL.CLAIM_NO, C.POLICY_NO, C.CUST_ID, C.first_nm, C.last_nm, CL.STATUS FROM INSU_POLICY IP JOIN CLAIM CL
ON IP.POLICY_NO = CL.POLICY_NO JOIN CUSTOMER C
ON IP.POLICY_NO = C.POLICY_NO
WHERE CL.STATUS = 'Rejected';
```

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	CUST_ID	\$ LAST_NM				
1 CL6102 89003	1604 Edward	Mills	Rejected			
² CL6104 89004	1708 Heather	Urso	Rejected			

Q16. Which is the most common product coverage with maximum subscription among all ACTIVE policies ?

```
SELECT PROD_TYPE_ID, (COUNT(PROD_TYPE_ID))
FROM POLICY_COVERAGE
WHERE POLICY_STATUS = 'Active'
GROUP BY PROD_TYPE_ID
HAVING (COUNT(PROD_TYPE_ID)) =
(
    SELECT MAX (COUNT(PROD_TYPE_ID))
FROM POLICY_COVERAGE
WHERE POLICY_STATUS = 'Active'
GROUP BY PROD_TYPE_ID
);
```

Answer: There are 2 product types having the same maximum number of subscriptions.



9. Additional Features using PL/SQL

-- Set to ON, in order to display in the SQL client

This section shows additional features using PL/SQL commands. For the query, used the "cursor", "IF..THEN" and "trigger" feature in PL/SQL commands.

9.1 Calculate and Print Revenue using "Cursor" and "IF..THEN" statements

This feature helps to calculate the Total Revenue for the company from 2015 year to 2020 year. It also displays the output of the calculation in the SQL client.

```
SET SERVEROUTPUT ON;
DECLARE
  TOTAL_REVENUE NUMBER(10,2);
 TOTAL2015 NUMBER(10,2);
 TOTAL2016 NUMBER(10,2);
 TOTAL2017 NUMBER(10,2);
 TOTAL2018 NUMBER(10,2);
 TOTAL2019 NUMBER(10,2);
 TOTAL2020 NUMBER(10,2);
  CURSOR C BILL
 IS
   SELECT
     BILL_NO, BILL_AMOUNT, BILL_DATE
   FROM
     BILL;
BEGIN
  TOTAL REVENUE := 0;
 TOTAL2015 := 0;
 TOTAL2016 := 0;
 TOTAL2017 := 0;
 TOTAL2018 := 0;
 TOTAL2019 := 0;
 TOTAL2020 := 0;
 FOR BILL_ROW IN C_BILL
 LOOP
   if BILL ROW.BILL_DATE > TO_DATE('01-01-2015', 'MM-DD-YYYY') AND
   BILL ROW.BILL DATE < TO DATE('12-31-2015','MM-DD-YYYY')then
     TOTAL2015 := TOTAL2015 + BILL ROW.BILL AMOUNT;
   elsif BILL_ROW.BILL_DATE > TO_DATE('01-01-2016', 'MM-DD-YYYY') AND
   BILL ROW.BILL DATE < TO DATE('12-31-2016','MM-DD-YYYY')then
```

```
TOTAL2016 := TOTAL2016 + BILL ROW.BILL AMOUNT;
   elsif BILL ROW.BILL DATE > TO DATE('01-01-2017', 'MM-DD-YYYY') AND
   BILL_ROW.BILL_DATE < TO_DATE('12-31-2017','MM-DD-YYYY')then
     TOTAL2017 := TOTAL2017 + BILL ROW.BILL AMOUNT;
   elsif BILL ROW.BILL DATE > TO DATE('01-01-2018', 'MM-DD-YYYY') AND
   BILL_ROW.BILL_DATE < TO_DATE('12-31-2018','MM-DD-YYYY')then
     TOTAL2018 := TOTAL2018 + BILL ROW.BILL AMOUNT;
   elsif BILL_ROW.BILL_DATE > TO_DATE('01-01-2019', 'MM-DD-YYYY') AND
   BILL ROW.BILL DATE < TO DATE('12-31-2019','MM-DD-YYYY')then
     TOTAL2019 := TOTAL2019 + BILL ROW.BILL AMOUNT;
   else
     TOTAL2020 := TOTAL2020 + BILL ROW.BILL AMOUNT;
   END IF;
   TOTAL REVENUE := TOTAL REVENUE + BILL ROW.BILL AMOUNT;
  END LOOP;
  DBMS OUTPUT.PUT LINE('TOTAL REVENUE FROM 2015 TO 2020 IS: $ ' | | TOTAL REVENUE);
  DBMS OUTPUT.PUT LINE(' => REVENUE FOR 2015 YEAR IS: $ ' | |TOTAL2015);
  DBMS_OUTPUT.PUT_LINE(' => REVENUE FOR 2016 YEAR IS: $ ' | |TOTAL2016);
  DBMS_OUTPUT.PUT_LINE(' => REVENUE FOR 2017 YEAR IS: $ ' | |TOTAL2017);
  DBMS_OUTPUT.PUT_LINE(' => REVENUE FOR 2018 YEAR IS: $ ' | |TOTAL2018);
 DBMS_OUTPUT.PUT_LINE(' => REVENUE FOR 2019 YEAR IS: $ ' | |TOTAL2019);
  DBMS OUTPUT.PUT LINE(' => REVENUE FOR 2020 YEAR IS: $ ' | |TOTAL2020);
END;
```

The following is the output:

```
Script Output × Query Result ×

P Query Result P Query R Q
```

9.2 Audit Log using "Trigger" Command

This feature tracks any update or deletion done to "customer" table of the database. The "Trigger" function is used to implement this feature. Below code is written to track the changes to "customer table.

A new TABLE called "audits" is created and the changes are stored in it automatically when any changes are done to "customer" table.

```
DROP TABLE audits CASCADE CONSTRAINTS;
CREATE TABLE audits(
                VARCHAR2(255),
  table_name
  transaction name VARCHAR2(10),
  by_user
              VARCHAR2(30),
  transaction_date DATE
);
CREATE OR REPLACE TRIGGER customers audit trg
 AFTER
 UPDATE OR DELETE
  ON customer
 FOR EACH ROW
DECLARE
 I_transaction VARCHAR2(10);
BEGIN
 -- determine the transaction type
 I transaction := CASE
    WHEN UPDATING THEN 'UPDATE'
    WHEN DELETING THEN 'DELETE'
 END;
 -- insert a row into the audit table
 INSERT INTO audits (table name, transaction name, by user, transaction date)
 VALUES('CUSTOMER', I_transaction, USER, SYSDATE);
END;
```

In order to demonstrate the feature, the email of customer in row with cust_id of 1501 is updated with below commands:

```
UPDATE
customer

SET
email = 'new@email.com'

WHERE
cust_id = 1501;
```

Then when "audits" table is checked by using following command.

SELECT * FROM audits;

It can be seen in the output (shown below) that a new record is created automatically showing the user who did the update to "customer" table.

