



The Future of Insurance Starts Here

Rating Fundamentals



AGENDA

- Rating & Primary Risk Components
- Rating Flow
- ❖ **Section: Rating in Dev-Studio**
- What is Rating?
- Policy hierarchy
- Different coverage tables(transactional and IEL) and views
- Rating algorithm
- Rating steps



Rating

- Rating is the process used to determine the premium of a policy. The premium is calculated using an algorithm.

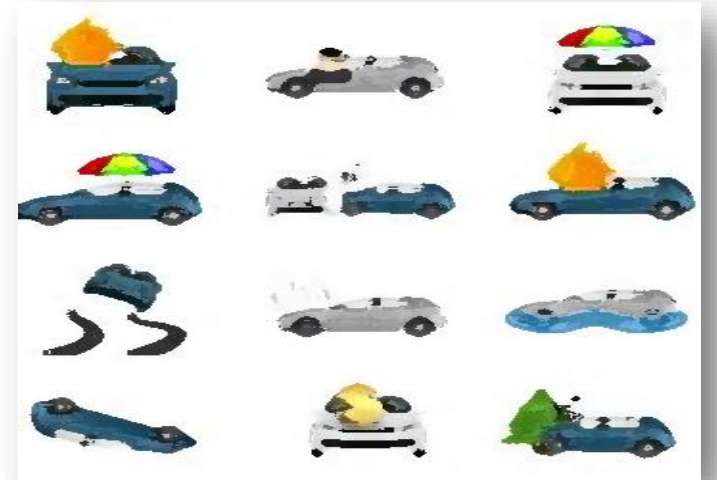


\$	1.60	83%	74.99%
\$	1.49	85%	75.45%
\$	1.59	95%	75.96%
\$	1.51	79%	76.17%
\$	1.08	73%	76.19%
\$	1.69	68%	76.10%
\$	1.64	81%	
\$	1.35	78%	
\$	1.52	88%	
\$		78%	

- The Rating of a policy can be broken down into the following steps.
 - Determine risk elements
 - Determine premium of the risk
 - Apply surcharges and discounts

Primary Risk Components

- The components play an important part of deciding the risk and determining the premium.
- Risks in Auto Line of Business:
 - Vehicles
 - The vehicle attributes such as year, make, and model play an important role in vehicle rating.
 - Vehicle coverage(specific to vehicle)
 - Drivers
 - The driver attributes like driver age, gender, and marital status play an important role in a driver rating.
 - The Class Code is the numeric representation of a set of driver attributes used to rate the drivers.
 - The Driver's license is also an important attribute to rate the driver(MVR, CLUE)

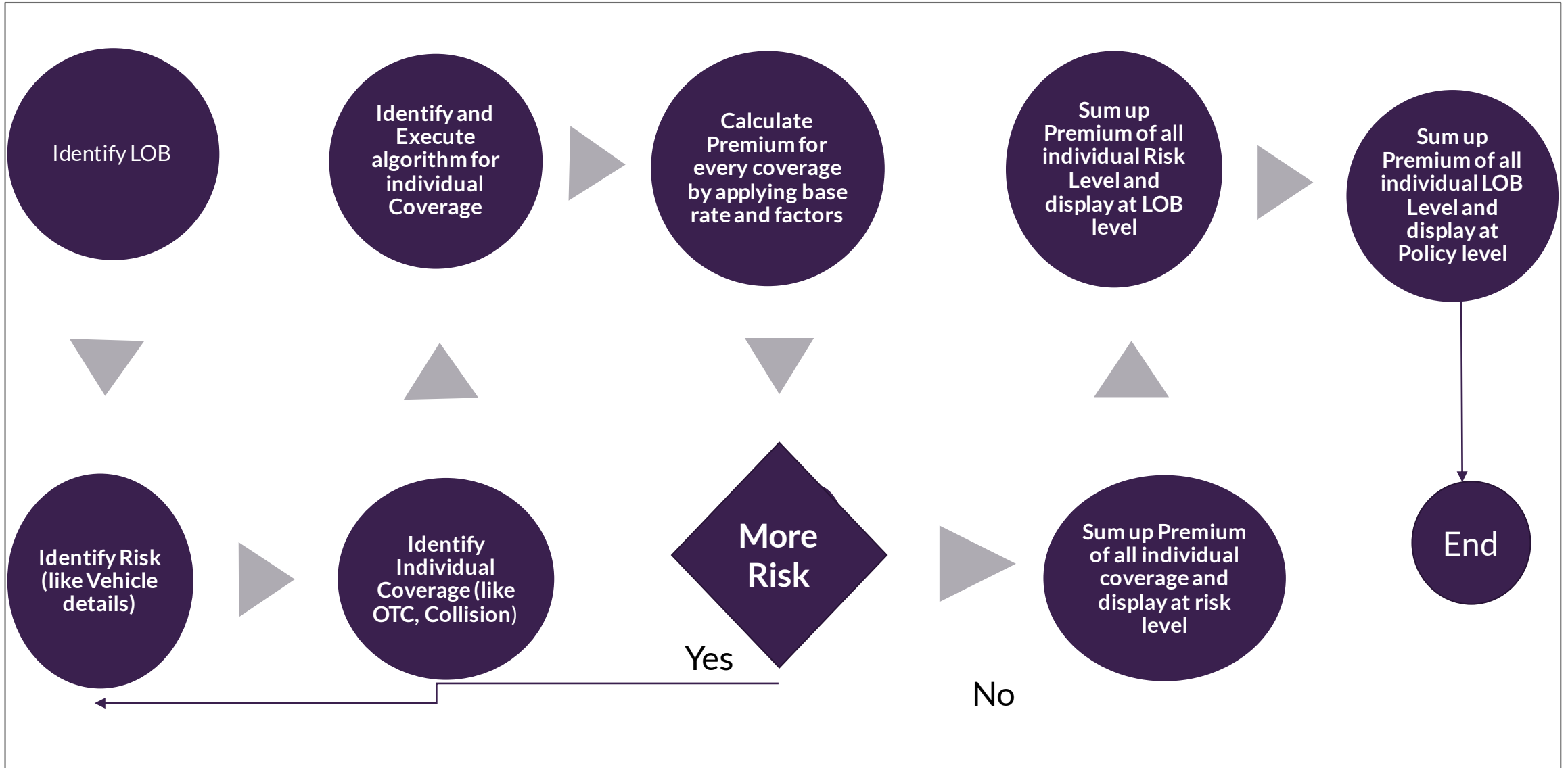


Primary Risk Components

- The following plays an important role in the location rating. The Homeowners line of business depends on:
 - Location
 - Type of Building
 - Structure
 - House
 - Number of families residing at the location
 - Number of fire units present



Rating Flow





Rating in Dev-Studio

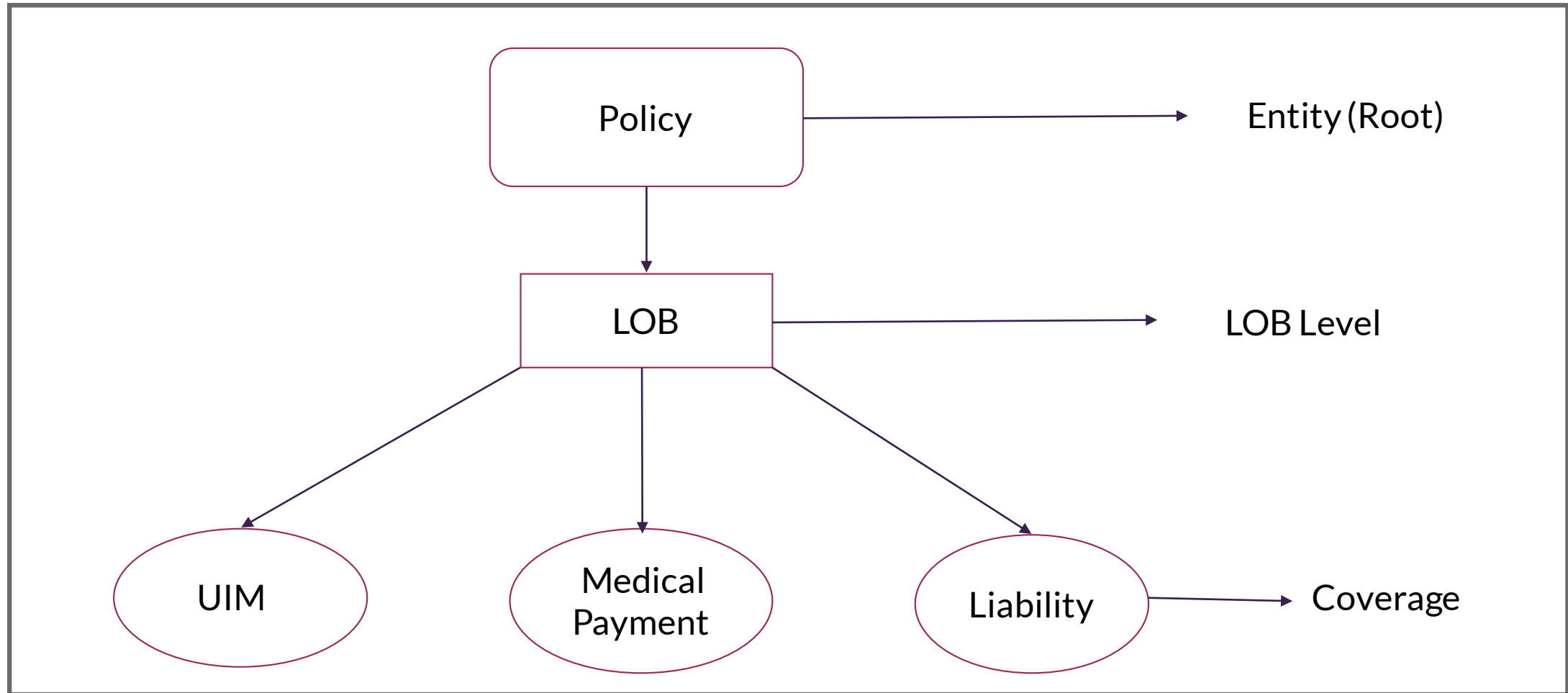
What is Rating?

- Rating is the process used to determine the premium of a policy.
- The premium is calculated using an rating algorithm in which actual functions and steps are defined to calculate premium.
- Rating formulae and other details are provided by customer. Depending upon which rating algorithm is implemented by development team.

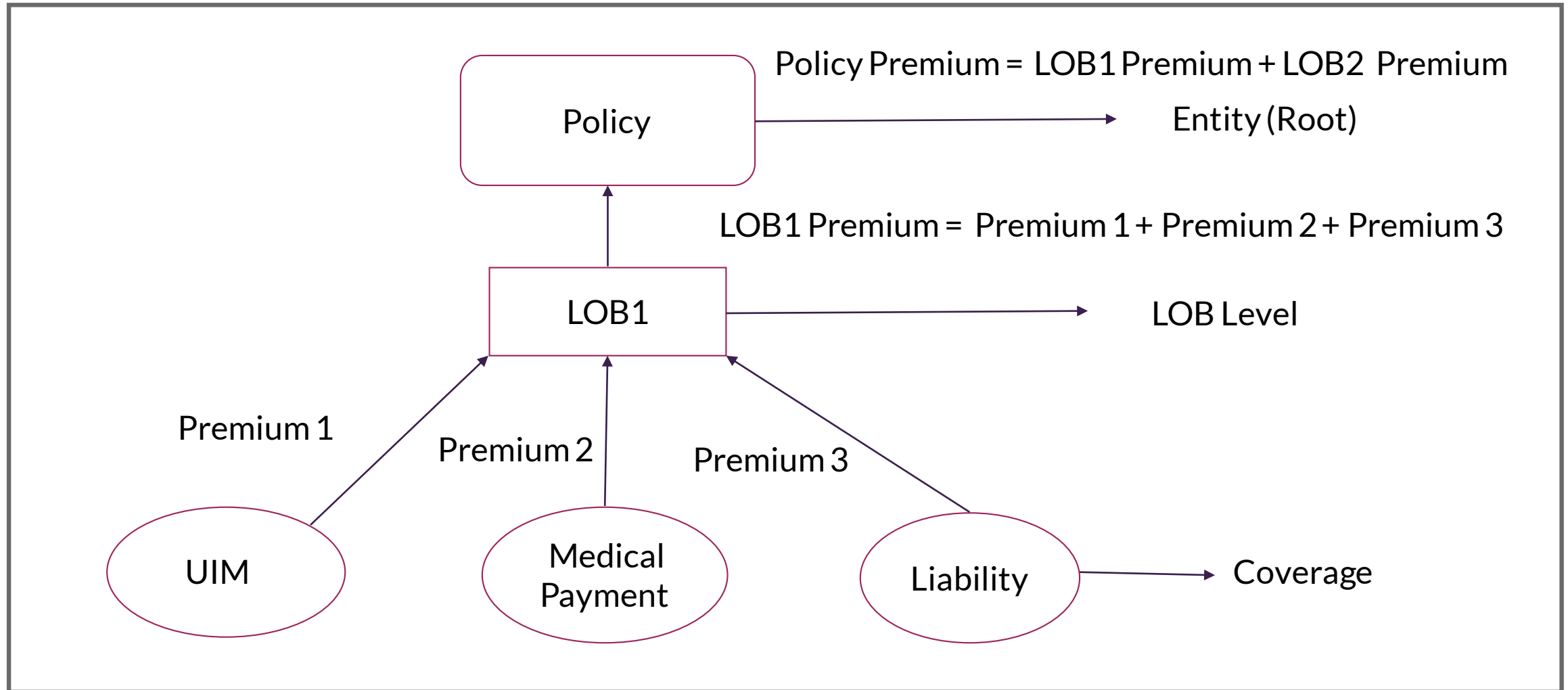
What is Rating?

- To explain rating configuration here we will take a reference of Commercial Auto (CA) LOB
- Basically, the steps followed while configuring rating is same across LOB only the table names will be different and some kind of logic will be different.

Policy hierarchy



Policy hierarchy



Rating Configurations in Dev Studio

- While creating new object set:
 - Ratable='y'
 - Ratable_type=<list of types> eg. Coverage
- Please Make Sure to add below fields while creating an Object which is Ratable and of Coverage type. Follow fields are compulsory fields for rating object.

Sl Num	Field Description	DB Column Name	Primitive Type
1	Coverage	C_COVERAGE	COVERAGE
2	DES	C_DES	Long Description
3	Rating Function	C_RATING_FUNCTION	Short Description
4	Order	C_SEQ	Surrogate Key
5	Rating Formula	C_RATING_FORMULA	Long Description
6	Coverage Code	C_COVERAGE_CODE	Coverage Code

Rating Configurations in Dev Studio

- Define rating function:
 - Dummy function for all objects, configured using “Rating Method”
 - **F_get_rating_function** will return rating function used for particular coverage.
 - In DEV DB, dummy function is stored in PCT_RATING_METHODS
- ETL Method:
 - ETL method is used for XML generation. It stores data in MIS_COVERAGES and MIS_COVERAGE_<LOB> eg. MIS_COVERAGE_CA
 - This XML is used for exporting/importing across environments. For eg. For particular policy processing, if QA reports some issue, then in order to reproduce issue, QA can export policy from QA environment and developer can check the same by importing into DEV environment.
 - In DEV DB, ETL method is stored into PCT_IPD_METHODS table
 - ETL Method will insert data in particular tables which will be retrieved by Policy 2015 application.

Different coverage tables(transactional and IEL) and views

- **Coverage and respective tables :**

- Every LOB can have multiple coverage object within it. And data for every Coverage object goes into respective coverage table.
- For e.g. Commercial Auto LOB can have multiple coverage(object) for e.g. Uninsured Motorist, Liability, Medical Payment
- While creating data for policy, all information related to coverage goes into respective MIS tables.
- For e.g. Information of Uninsured Motorist coverage goes into MIS_COV_CA_UIM. In the same way data for Liability coverage goes into MIS_COV_CA_LIABILITY.
- Data from all these coverage table goes into view VW_MIS_CA_ALL_COVERAGES

Different coverage tables(transactional and IEL) and views

- **Configuration in IEL_CA_SELECTED_COV table:**
 - This table is responsible for fetching records from all coverage table for e.g. MIS_COV_CA_UIM, MIS_COV_CA_LIABILITY and insert it under view VW_MIS_CA_ALL_COVERAGES.

The screenshot shows a web-based configuration interface for a database table. The main header is 'Line Of Business: Commercial Auto'. Below it, there's a 'NEW' button and a 'VIEW' dropdown. A sidebar on the left shows a list of tables, with 'SELECTED_COV' highlighted. The main area displays the configuration for the 'IEL_CA_SELECTED_COV' table, which is locked by 'vksat@base-cover-all.com'. The configuration includes fields for 'Name' (IEL_CA_SELECTED_COV), 'Description' (IEL_CA_SELECTED_COV), 'Interline' (unchecked), 'Source' (Base), and 'Skip License State' (unchecked). Below these fields are tabs for 'DATA', 'DEFINITION', 'INDEX', 'UNIT TESTING', and 'TAGS'. The 'DATA' tab is active, showing a table with columns: #, SOURCE, PRODUCT_VERSION, COVERAGE, DB_TABLE_NAME, COLUMN_ALIAS, SELECT_COND_1, SELECT_COND_2, and STATE_COI. The table contains two rows of data.

#	SOURCE	PRODUCT_VERSION	COVERAGE	DB_TABLE_NAME	COLUMN_ALIAS	SELECT_COND_1	SELECT_COND_2	STATE_COI
<input type="checkbox"/>	Base		LIABILITY	MIS_COV_CA_LIABILITY	OUTER	SELECT 'MIS_COV_CA_Li	is_suppress_print,	
<input type="checkbox"/>	Base		COV_MED_PAYMENTS_AI	MIS_COV_CA_MED_PAY_	OUTER	SELECT 'MIS_COV_CA_M	NULL benefit_perio	

Rating steps

- **How the premium is calculated –**

- First we insert data in IEL_CA_SELECTED_COV table which inserts data in VW_MIS_CA_ALL_COVERAGES table for each of the coverage.
- Then rating algorithm is configured. (It will calculate premium for individual Premium)
- Rating step will fetch one by one coverage record from VW_MIS_CA_ALL_COVERAGES. Then apply Rating Algorithm for every coverage.
- In the package, it will take the calculation function internally from F_GET_RATING_FUNCTION and then it will execute the function and calculate the premium.
- Then finally a sum of all coverage Premium will be calculated.

Rating Plugin in Dev Studio

- It displays
 - Rate Plan
 - Rating Algorithm

Rating algorithm

- Rating plugin in Dev Studio is used to create Rating Algorithm.
- For every coverage there would be a corresponding Rating Algorithm. Rating algorithm would result into calculation of premium for individual coverage.
- Hence individual premium for every coverage would be calculated by using individual Rating Algorithm and finally premium of all coverage would sum up into total premium of all coverage.
- Rating algorithm data is store in **IEL_CA_RATING_ALGO** table.
- For e.g. There is a Rating Algorithm configured for Liability coverage.

Rating algorithm

- **Important Rating Algorithm attributes :**
 - Source – Base/Custom
 - Control Date – The effective date of Rating Algorithm
 - Coverage – Coverage for which Rating Algorithm is configured
 - Premium Calculation Procedure – Function/Procedure written for Rating Algorithm
 - Other Condition – Condition to be satisfied before executing rating Algorithm.
 - More Info will open editor for existing Algorithm.

Line Of Business: Commercial Auto

RATING ALGORITHMS x

Rating Algorithms Table: IEL_CA_RATING_ALGO

SEARCH [X] BASE [X] CUSTOM [X] ADD [X] EDIT [X] COPY [X] REMOVE [X]

SOURCE	COMPANY	PROGRAM	CONTROL DATE	EXPIRATION_DATE	STATE	SEQUENCE NUMBER	RISK TYPE	COVERAGE	PREMIUM CALCULATION PROCEDURE
Base			07/01/2011		Virginia	300	VEHICLE	UM	f_calc_um_mlst_farmauto_Y
Base			07/01/2011		Virginia	300	DRIVE_OTHEI	UM	f_calc_um_mlst_docc
Base			06/01/2010			100	VEHICLE	LIABILITY	f_calc_ttt_trler_semi
Base			06/01/2012		New York	400	VEHICLE	OTC	f_calc_otc_pvt_psngr
Base			06/01/2012		New York	400	VEHICLE	OTC	f_calc_otc_ttt_sp_type

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VIEW TABS

MODIFY RATING

Rating algorithm

- Rating Algorithm Editor

Edit Rating Algorithm

Sequence Number

CA-8001534-13382

RATING ALGORITHMS

BASE RULE

NOT RELEASED

RULE RATING ALGORITHM

WHEN


BASIC CONDITIONS ON POLICY ATTRIBUTES

Other Condition is

NVL(farm_auto,'N')
='Y' AND
UPPER(NVL(vehicle
_size,'N'))NOT IN
(UPPER('Trailers'),U

THEN

* Call Premium Calculation Procedure

VIEW

CLOSE

Rating algorithm

- Rating Algorithm location
- Then -> Call Premium Calculation Procedure ->

Rating Algorithm

Rating Algorithm Procedure : f_calc_um_mlst_farmauto_Y [CHANGE](#)

[GO](#) [CLEAR](#)

☒ BASE ☒ CUSTOM

F_CALC_PICK_UP_OR_DELIVERY

F_CALC_AUTODLR_LIB_BALMIN

F_CALC_BROADENED_COVERAG

F_CALC_BROAD_FORM_PRODU

F_CALC_MGRNT_LIAB

F_CALC_TOWING_LABOUR

F_CALC_UNINSURED_PD_TRLER

F_CALC_UNINS_MOT_PD_REG

F_CALC_UNINS_MOT_PD_DRV

F_CALC_UNINS_MOT_PD_LOC

F_CALC_UMPD_MOT_VEH_FARI

F_CALC_UNINS_MOT_PD_VEH

F_CALC_UM_AUTODLR_MLST

F_CALC_UM_REGPLATNOTIS_M

F_CALC_UM_MLST_DOCC

F_CALC_UNINSURED_MLST_FAF

F_CALC_UM_MLST_FARMAUTC

FUNCTION

```
CREATE OR REPLACE FUNCTION    F_CALC_UM_MLST_FARMAUTO_Y (  
    p_entity_reference IN VARCHAR2 , p_gid IN NUMBER , p_rating_formula OUT VARCHAR2 , p_manual_premium OUT NUMBER , p_annual_premium OUT NUMBER )  
IS  
    v_return NUMBER;  
BEGIN  
    DECLARE  
        v_return          NUMBER := 1;  
        v_loss_cost       vw_mis_cov_ca_um.loss_cost%TYPE;  
        v_loss_cost_multiplier    vw_mis_cov_ca_um.loss_cost_multiplier%TYPE;  
        v_farm_auto_factor    vw_mis_cov_ca_um.farm_auto_factor%TYPE;  
        v_calculate_premium   vw_mis_cov_ca_um.annual_premium%TYPE;  
        v_indv_or_married_add_amnt    vw_mis_cov_ca_um.indv_or_married_add_amnt%TYPE;  
    BEGIN  
        -- Get the required factors for premium calculation  
    RETURN v_return;  
END;
```

LANGUAGE PL/SQL

VIEW ☐ Flowchart ☒ Script

DATABASE [+](#)

[VALIDATE](#) [COMPLETE](#) [CANCEL](#)

Rating algorithm

- Configuring a new Rating Algorithm

The screenshot shows the DEV STUDIO interface for configuring a Rating Algorithm. The main window is titled 'Rating Algorithm' and displays a list of rating algorithms on the left and a table of functions on the right. A red box highlights the '+ ADD' button, with an arrow pointing to it and the text 'Add new function from here'.

Rating Algorithm Procedure: f_calc_etc_ttt_sp_type [CHANGE](#)

Search: [GO](#) [CLEAR](#)

Rating Algorithms:

- ☒ BASE ☒ CUSTOM
- ☐ K_CA_RATING_ALGO_PA
- ☐ K_CA_RATING_ALGO_WI
- ☐ K_CA_RATING_ALGO_MA
- ☐ K_CA_RATING_ALGO_TN
- ☐ K_CA_RATING_ALGO_AL
- ☐ K_CA_RATING_ALGO_BASE
 - ☐ Variables
 - ☐ Functions
 - ☐ Procedures
- ☐ K_CA_RATING_ALGO_UT
- ☐ K_CA_RATING_ALGO_VA
- ☐ K_CA_RATING_ALGO_NC
- ☐ K_CA_RATING_ALGO_DE
- ☐ K_CA_RATING_ALGO_RI
- ☐ K_CA_RATING_ALGO_OR
- ☐ K_CA_RATING_ALGO_AK
- ☐ K_CA_RATING_ALGO_PR
- ☐ K_CA_RATING_ALGO_AZ
- ☐ K_CA_RATING_ALGO_AR

Functions Table:

SELECT	SOURCE	SCOPE	*FUNCTION NAME	DESCRIPTION	*MORE
<input type="checkbox"/>	BASE	Public	F_CALC_COLLISION_H	Collision When Additional Coverages Hired Borrowed Hired Borrowed Auto Collision = Y Algo Line 287 (SDG: 15062011) Changes done as per SR 43629	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLL_NAME1	Collision When rating Named Driver Collision Collision ((Collision.Deductible = 0 or (Collision.Deductible > 0 and DED FTR > Collision.Original Cost New Factor)) Algo Line 420	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLL_NAME1	Collision "When rating Named Driver Collision Collision (Named Driver Collision.Deductible > 0 and Named Driver Collision.DED FTR <= Named Driver Vehicle.Original Cost New Factor)" Algo Line 450	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLL_TTT_CH	Where Vehicle.Vehicle Type = Trucks, Tractors and Trailers Vehicle Valuation Method = Actual Cash Value AND Vehicle Automobile Junk Dealer = Y and Coverage Collision = Y Algo Line: 78 (CT)	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLLISN_SPCL	Collision When Vehicle.Special Type = Golfmobile and Coverage Collision = Y Algo Line: 348	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLLISN_SPCL	When Vehicle.Special Type = Motorcycles, Motorscooters, or Motorbikes or Golfmobile - Commercial Purpose or Leasing or Rental - Short Term Motorcycles or Motorbikes and Coverage Collision = Y Algo Line 358	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLLISN_SPCL	When Vehicle.Special Type = Snowmobiles OR Leasing or Rental -	MORE INFO

[VALIDATE](#) [COMPLETE](#) [CANCEL](#)

Rating algorithm

- Depending upon “Basic Conditions on Policy Attributes” the Rating Algorithm is placed under different packages.
- For e.g. If an Algorithm is configured for specific state(Virginia) then the Rating Algorithm would be created under state specific package(K_CA_RATING_ALGO_VA)
- For By default all algorithm goes in base K_CA_RATING_ALGO_BASE.

DEV STUDIO
Line Of Business: Commercial Auto
VIEW TABS
Piyush (Base)

Rating Algorithm

Rating Algorithm Procedure: f_calc_etc_ttt_sp_type

Search [GO] [CLEAR]

☒ BASE ☐ CUSTOM

Rating Algorithm Modules

- K_CA_UTILITIES
- K_CA_RATING_ALGO_MN
- K_CA_RATING_ALGO_NA
- K_CA_RATING_ALGO_ID
- K_CA_RATING_ALGO_IN
- K_CA_RATING_ALGO_WV
- K_CA_RATING_ALGO_WY
- K_CA_RATING_ALGO_PA
- K_CA_RATING_ALGO_WI
- K_CA_RATING_ALGO_MA
- K_CA_RATING_ALGO_TN
- K_CA_RATING_ALGO_BASE**
- Variables
- Functions
- Procedures
- K_CA_RATING_ALGO_UT

SELECT	SOURCE	SCOPE	*FUNCTION NAME	DESCRIPTION	*MORE
<input type="checkbox"/>	BASE	Public	F_CALC_COLLISION_H	Collision When Additional Coverages: Hired Borrowed Hired Borrowed Auto Collision = Y Algo Line 287 (SDG: 15062011) Changes done as per SR 43629	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLL_NAMEI	Collision When rating Named Driver Collision Collision ((Collision.Deductible > 0 and (Collision.Deductible > 0 and DEO FTR > Collision.Original Cost New Factor)) Algo Line 420	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLL_NAMEI	Collision "When rating Named Driver Collision Collision (Named Driver Collision.Deductible > 0 and Named Driver Collision.DEO FTR <= Named Driver Vehicle.Original Cost New Factor)" Algo Line 430	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLL_TTT_Or	Where Vehicle Vehicle Type = Trucks, Tractors and Trailers Vehicle Valuation Method = Actual Cash Value AND Vehicle Automobile Junk Dealer = Y and Coverage Collision = Y Algo Line: 78 (CT)	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLLISN_SPCL	Collision When Vehicle Special Type = Golfmobile and Coverage Collision = Y Algo Line: 348	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLLISN_SPCL	When Vehicle Special Type = Motorcycles, Motorscooters, or Motorbikes or Golfmobile - Commercial Purpose or Leasing or Rental - Short Term Motorcycles or Motorbikes and Coverage Collision = Y Algo Line 358	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CALC_COLLISN_SPCL	When Vehicle Special Type = Snowmobiles OR Leasing or Rental -	MORE INFO

[VALIDATE] [COMPLETE] [CANCEL]

Rating steps

- Rating is a step by step process. For e.g. after calculating total premium of all coverage, there might be experience rating, manual rating and then additional factors to be applied on Premium of all coverage.
- “Rate Plan” section is used to configure the ordering of execution.
- Rating plan data is store in **IEL_CA_ADV_RATING_STEPS** table.

←

Line Of Business: Commercial Auto

VIEW TABS

NEW

VIEW

RATING ALGORITHMS x

RATE PLAN x

Rating

Rate Plan

Rating Algorithms

MODIFY RATING

Type

Basic Rating

Plan Based Rating

Rating Plan

MORE INFO

SEARCH

BASE

CUSTOM

ADD

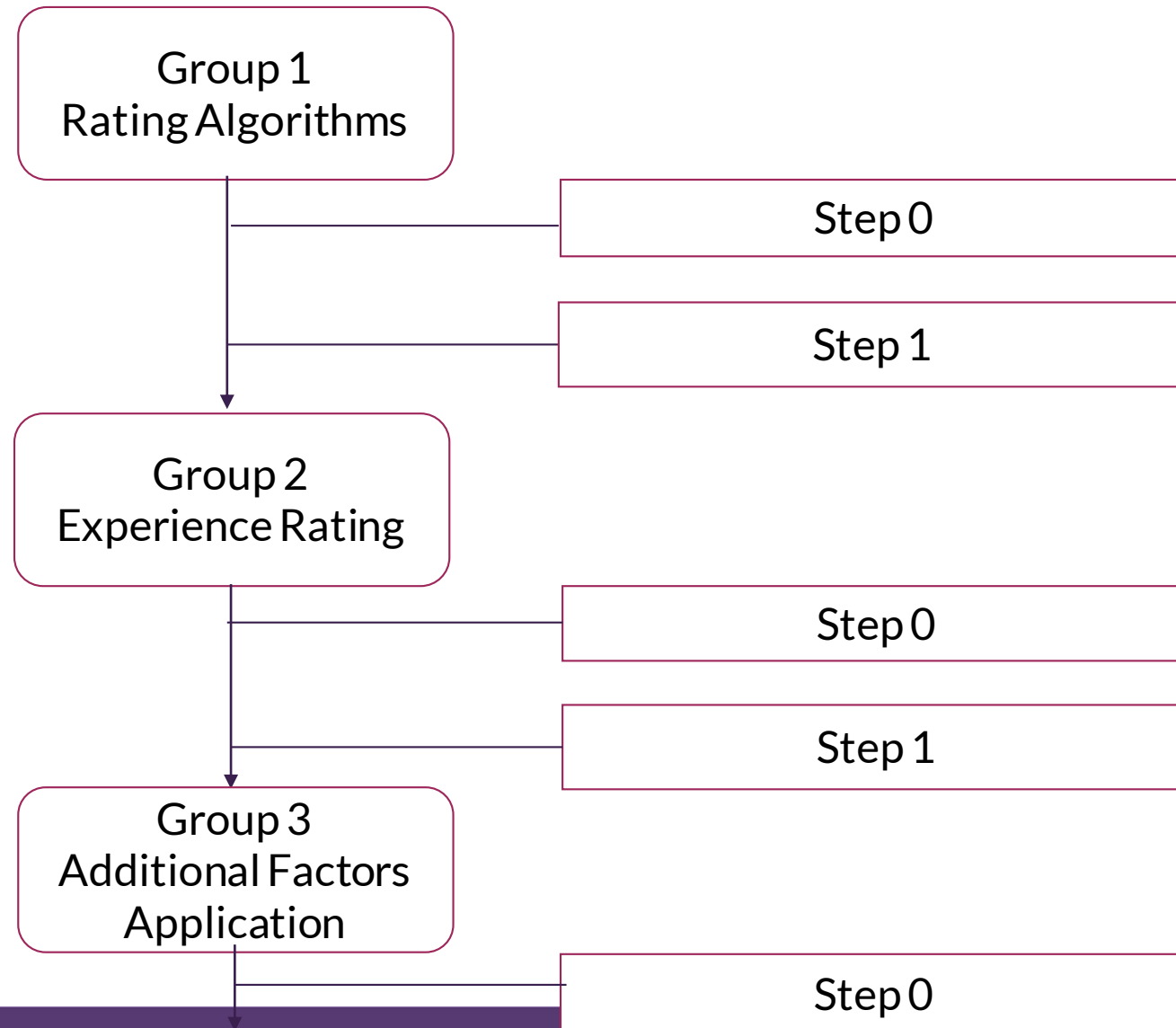
EDIT

COPY

REMOVE

STEP NAME	STEP DESCRIPTION	ADVANCED CONDITION	PROCEDURE
InsHBATruckersBalToMin	Insert Hired Borrowed Auto Truckers Balance To Min	k_adv_ca_rating.f_can_ins_HBATkrsBalToMin	k_adv_ca_rating.f_ins_HBATk
LiabCalcAnnualBasicLimitsComp	Liability: Calculate Annual Basic Limits Company LC		k_adv_ca_rating.p_lb_cal_ann
InsHBATruckersBalToMin	Insert Hired Borrowed Auto Truckers Balance To Min	K_ADV_CA_RATING.F_CAN_INS_HBATKRSBALTOMIN	K_ADV_CA_RATING.P_INS_HB
DethBATruckersBalToMin	Determine HBA Truckers Bal To Min		K_ADV_CA_RATING.P_DETERM

Rating steps



Rating steps

- How to add rating step in Dev Studio –

DEV STUDIO
Line Of Business: Commercial Auto

VIEW TABS

NEW VIEW

Rating Plan

Rating Algorithms

Rating Plan

Rating Algorithms

Forms & Documents

Bureau Adoptions

Base Packs

Rating Plan

Type: Basic Rating (selected) Plan Based Rating

MORE INFO

SEARCH BASE CUSTOM

ADD EDIT COPY REMOVE

ADVANCED CONDITION	PROCEDURE	MARKET SEGMENT	PRODUCT VERSION	PRODUCT CODE	LOB CODE	RULE ID
k_adv_ca_rating.f_calc_sched_factor						CA-8001534-1
K_ADV_CA_RATING.F_IS_LOB_DELETED						CA-8001534-1
k_adv_ca_rating.p_del_hbaltomin						CA-8001534-1
k_adv_ca_rating.p_del_non_own_baltomin						CA-8001534-1
k_adv_ca_rating.f_can_ins_HBAOtrBaltomin	k_adv_ca_rating.f_ins_HBAOtrBaltomin					CA-8001534-1
Liability Balance To Min	k_adv_ca_rating.f_can_ins_hbalbmfbaltomin	k_adv_ca_rating.p_ins_hbalbmfbaltomin				CA-8001534-1
Property Damage Balance To Min	k_adv_ca_rating.f_can_ins_hbapdmfbaltomin	k_adv_ca_rating.p_ins_hbapdmfbaltomin				CA-8001534-1
n	k_adv_ca_rating.f_can_ins_ad_eo_baltomin	k_adv_ca_rating.p_ins_ad_eo_baltomin				CA-8001534-1
	k_adv_ca_rating.p_rate_coverages					CA-8001534-1

TICKETS

SEARCH

TICKET ID	PRODUCT VERSION	STATUS	USER	DATE
11838060		IN PROGRESS	jks@base-cover-all.com	2017-03-20 04:37:58
11837523		IN PROGRESS	rajesh@base-cover-all.com	2017-03-17 02:15:30
11837523		IN PROGRESS	rajesh@base-cover-all.com	2017-03-16 16:55:00

Rating steps

- Give the Step Name which is unique and then Group Id (iteration number), mention Step Id (sequence number) and other parameters like control date etc. similar to rating algorithm

The screenshot shows the 'Edit Rate Plan Step' dialog in the DEV STUDIO application. The dialog is titled 'Edit Rate Plan Step' and contains the following fields and sections:

- Step Name:** ApplySchedFactorGp
- Iteration Number:** 55
- Rate Plan Step:** CA-8001534-12885
- BASE RULE:** NOT RELEASED
- Apply Schedule Factor Group:** (Text field)
- WHEN:** BASIC CONDITIONS ON POLICY ATTRIBUTES
 - Control Date is between 01/01/2000 and (empty field)
 - Company is (empty dropdown)
 - Product Version is (empty field)
 - Market Segment is (empty dropdown)
- THEN:** * Call Procedure
- VIEW:** A button with a red box around it and an arrow pointing to it with the text 'Click here to add the function'.
- CLOSE:** A button in the bottom right corner.

Rating steps

- System divides the whole rating into few groups. One group is to calculate minimum premium, one group is to calculate schedule rating, one to calculate experience rating etc.
- Every group has many steps, so system orders first by group id and then by step id.
- Two important functions – Decision function is a conditional check function on any step. If decision function returns Yes then only it goes to step execution function of that step.
- These functions are stored in different package – K_ADV_CA_RATING
- It can be configured from Advanced Condition section of Rating Step.

Edit Rate Plan Step

Step Name

InsAutoDlrBalToMin

Iteration Number

10

CA-8001534-12890

Rate Plan Step

BASE RULE

NOT RELEASED

Insert Auto Dealers Liability Balance to Min

WHEN

BASIC CONDITIONS ON POLICY ATTRIBUTES

Company

is

State

is

Program

is

Exp Production Version

is

ADVANCED CONDITION

THEN

* Call Procedure

VIEW

CLOSE

Rating steps

- Decision Condition query to return Yes if execution function needs to be executed.

Advanced Condition for Rate Plan Step

Rate Plan Step Name : InsAutoDlrBalToMin

Advanced Condition Procedure : k_adv_ca_rating.f_can_ins_AutoDlrliabbalMin

[CHANGE](#)

[GO](#) [CLEAR](#)

☒ BASE ☒ CUSTOM

F_CAN_INS_ADDL_INS_WP_BAL

F_SURCHARGE_FACT_ON_MON

F_CAN_APPLY_ANN_PREM_FAC

F_CAN_PRI_STATE_MA_CHECK

F_CAN_CUSTOMER_CHECK

F_CAN_INS_AD_EO_BALTOMIN

F_CAN_INS_GW_PD_BALTOMIN

F_CAN_INS_REP_AUTO_BALTON

F_CAN_CALC_PD_FACTOR

F_CAN_CALC_LIAB_FACTOR

F_CAN_INS_HBAPDMFBALTO

F_CAN_INS_HBALBMFBALTO

F_CAN_INS_HBAOTRSBALTO

F_CAN_INS_HBATKRSBALTO

F_CAN_INS_HBAPDBALTO

F_CAN_INS_AUTODLRLIAB

FUNCTION

LANGUAGE PL/SQL

VIEW ☐ Flowchart ☒ Script

DATABASE +

CREATE OR REPLACE FUNCTION F_CAN_INS_AUTODLRLIABBALMIN (
p_entity_reference IN VARCHAR2) RETURN VARCHAR2
IS
v_return VARCHAR2;
BEGIN
BEGIN
SELECT CASE WHEN
(
SELECT count(*)
FROM vw_mis_cov_ca_dlrliab_balmin
WHERE 1=1
AND entity_reference = p_entity_reference
) = 0
AND EXISTS
(
SELECT
RETURN v_return;
END;

[VALIDATE](#) [COMPLETE](#) [CANCEL](#)

Rating steps

- Add the function same steps to be followed as rating algorithm

DEV STUDIO
Line Of Business: Commercial Auto

NEW VIEW IEL_CA_SELECTED_COV * IEL_CA_APPLY_FACTORS * IEL_CA_PREMIUM_SUMMARY_COV * **RATE PLAN ***

Screens
Tables
Rating

Rate Plan
Rating Algorithms

Execution Logic for Rate Plan Step

Rate Plan Step Name : ApplySchedFactorGp
Advanced Condition Procedure : NONE [CHANGE](#)

Search [GO](#) [CLEAR](#)

☒ BASE ☒ CUSTOM

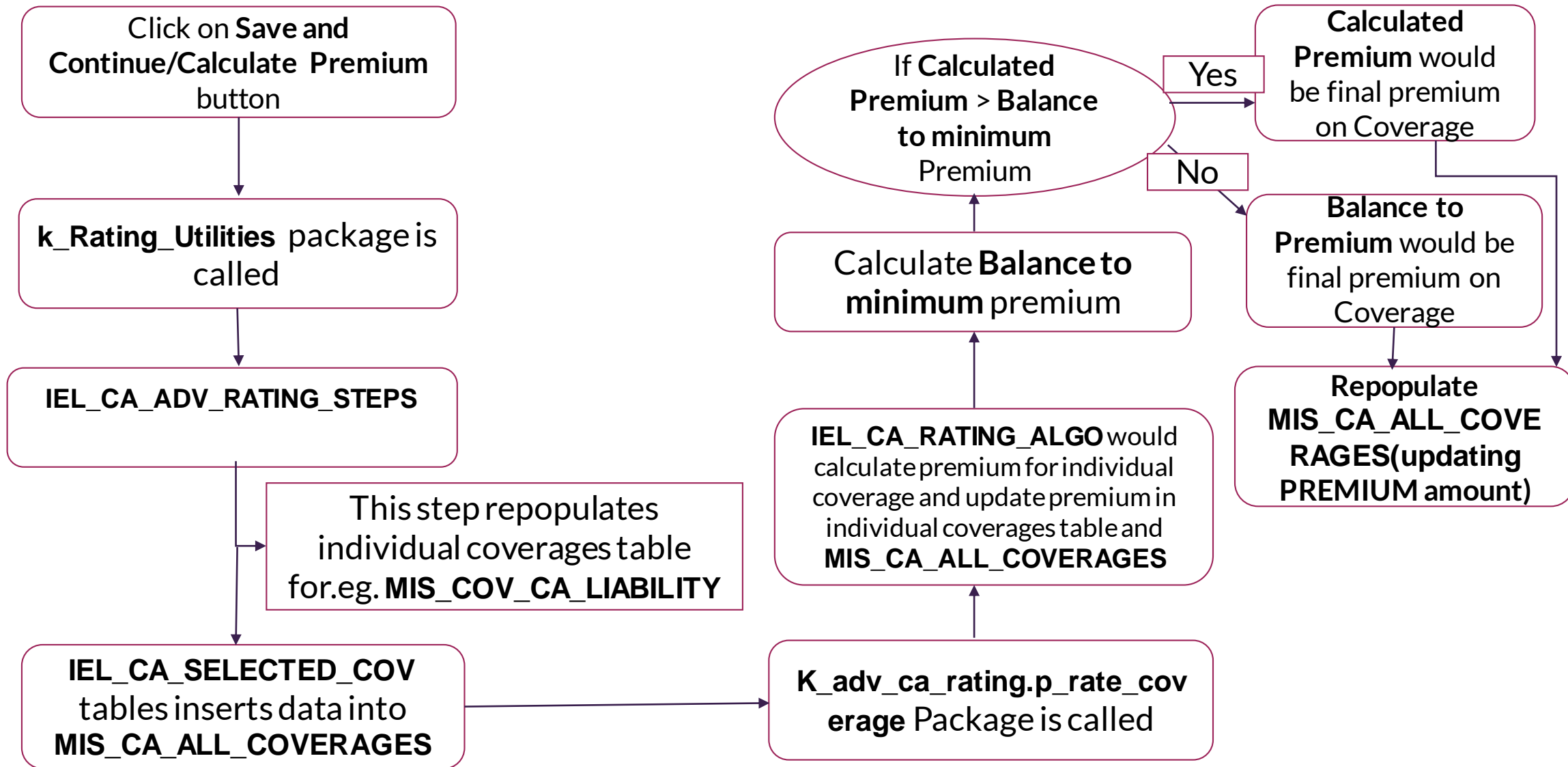
SELECT	SOURCE	SCOPE	*FUNCTION NAME	DESCRIPTION	*MORE
<input type="checkbox"/>	BASE	Public	f_get_numeric_lookup_	SR#57104: This function is used to get the minimum premium and classification code	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CAN_CALC_LIAB_FAC	End Delete 48678	MORE INFO
<input type="checkbox"/>	BASE	Public	f_is_before_144	SR#70163	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CAN_CALC_PD_FACT		MORE INFO
<input type="checkbox"/>	BASE	Public	f_get_sch_rate_eligibility	SR#63634	MORE INFO
<input type="checkbox"/>	BASE	Public	f_is_this_state_eligible	SR#63634	MORE INFO
<input type="checkbox"/>	BASE	Public	f_populate_globals	SR#63634	MORE INFO
<input type="checkbox"/>	BASE	Public	F_CAN_INS_HBAPOMFE		MORE INFO
<input type="checkbox"/>	BASE	Public	F_CAN_INS_AUTODLRU		MORE INFO
<input type="checkbox"/>	BASE	Public	F_CAN_INS_HBATKRSB		MORE INFO

[+ ADD](#) [EDIT](#) [REMOVE](#)

[VALIDATE](#) [COMPLETE](#) [CANCEL](#)

MODIFY RATING
COPY REMOVE
REFRESH MORE
MORE INFO

Flow of Rating steps



Additional Factors

- **Additional factor**

- There might be a need to apply an additional factor on total premium of all coverage. In this case there is no need to configure any Rating Algorithm but additional factor can be configured in IEL_CA_APPLY_FACTOR. From this additional factor would be taken and applied on premium.
- So it would be one of the **step in Rating plan**. This step should be executed only after Rating Algorithm is applied on all coverage.

Additional Factors

- Factor application step in Dev Studio

DEV STUDIO
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NEW VIEW IEL_CA_SELECTED_COV IEL_CA_APPLY_FACTORS

Screens
Tables

IEL_CA_APPLY_FACTOR *
Search GO CLEAR
Base Custom
NAME DESCRIPTION
IEL_CA_APPLY_FACTORS CA Factors On Rating Algo

REMOVE TABLE **MODIFY TABLE**

* Name: IEL_CA_APPLY_FACTORS
Interline: ☐
Source: Base
Description: CA Factors On Rating Algo
Skip License State ☐

DATA DEFINITION INDEX UNIT TESTING TAGS

SEARCH Base Custom ADD DELETE IMPORT EXPORT

#	SOURCE	PRODUCT_VERSION	FACTOR_NAME	FACTOR_DISPLAY_NAME	ADVANCED_CRITERIA	PROGRAM_CODE	STATE_CODE	COMPANY_CODE	EFFECTIVE_DATE
	Base								
	Base								
	Base		MECH_LIFT_FTR	MECHANICAL LIFT FTR	SELECT DECODE(COUNT('				03/01/201
	Base		MECH_LIFT_FTR	MECHANICAL LIFT FTR	SELECT DECODE(COUNT('				03/01/201
	Base		MECHANICAL_LIFT_FTR	MECHANICAL LIFT FTR	SELECT DECODE(COUNT('				03/01/201
	Base		NUMBER_OF_DAYS_FACT	NO OF DAYS FTR	SELECT DECODE(COUNT('				03/01/201
	Base		MECH_LIFT_FTR	MECHANICAL LIFT FTR	SELECT DECODE(COUNT('				03/01/201
	Base		MECH_LIFT_PIP_FTR	MECHANICAL LIFT FACTO	SELECT DECODE(COUNT('				03/01/201
	Base		MECH_PPI_LIFT_FTR	MECHANICAL LIFT FTR	SELECT DECODE(COUNT('				03/01/201

TICKETS SEARCH

Premium Summary Screen Coverage

- Once all the steps are completed the premium is calculated for all coverages and premiums are there in coverage tables.
- Whatever data is there in VW_MIS_CA_ALL_COVERAGES after execution of these steps, it will be used to display in Premium Summary Screen.
- To display data in Premium Summary Screen, an entry need to be made IEL_CA_PREMIUM_SUMMARY_COV table.

Premium Summary Screen Coverage

- FK_COLUMN_NAME is foreign key reference for composed Object.
- DISPLAY_NAME will be displayed on Premium Summary Screen.

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Piyush (Base) VIEW TABS

NEW VIEW IEL_CA_SELECTED_COV IEL_CA_APPLY_FACTORS IEL_CA_PREMIUM_SUMMARY_COV RATING ALGORITHMS

Screens
Tables

IEL_CA_PREMIUM_SUMMARY_COV
Search GO CLEAR
Base Custom

NAME	DESCRIPTION
IEL_CA_PREMIUM_SUMMARY_COV	Coverage Description for Premium Summary

NAME: IEL_CA_PREMIUM_SUMMARY_COV
Interline: ☐
Source: Base

Description: Coverage Description for Premium Summary
Skip License State ☐

DATA DEFINITION INDEX UNIT TESTING TAGS

SEARCH Base Custom

PRODUCT_VERSION	FK_COLUMN_NAME	COVERAGE_DISPLAY_NAME	IS_BAL_TO_MIN	PRIORITY	COVERAGE_TYPE	COVERAGE_CODE	MUTISTATE_VERSION	SEC
VEH_WA_LOSS_COV		Work Loss	N	53	Liability	INCOME-BENE		50
VEH_FUNERAL_EXPENSE		Accidental Death Benefits	N	55	Liability	FUNERAL-BENE		50
LOC_COV_CA_MED_BEN		Medical Benefits	N	57	Liability	MEDICAL-BENE		50
VEH_DEATH_BENEFITS_C		Auto Death Benefits	N	59	Liability	DEATH-BEN		50
LOC_PROP_PROT_INSUR		Property Protection Insur	N	69	Liability	LOC-PP		60
LOC_LMT_PROPDMG_LIA		Limited Property Damage	N	71	Liability	LOC-LIM-LIABPD		70
VEH_ADD_PIP_COV		Combination First Party B	N	75	Liability	CFPB		70
COV_MED_PAYMENTS_SI		Medical Payments	N	91	Liability	MEDPAY-SPOUSE		90
LOC_MEDICAL_PAYMENT		Medical Payments	N	91	Liability	GA-MEDPAY		90

TICKETS SEARCH

Best Practices

- If change is needed in existing IPD method which is written with NULL context path then it should be added on all applicable contexts.
- If creating a new coverage code, ensure its length does not exceed 15 characters.
- While testing any UI/Rating driven by checkbox, do ensure to test both scenarios one by checking the checkbox and other without checking the checkbox.
- Do make sure that newly added function does not exceed length of 30 characters.



THANK YOU!

