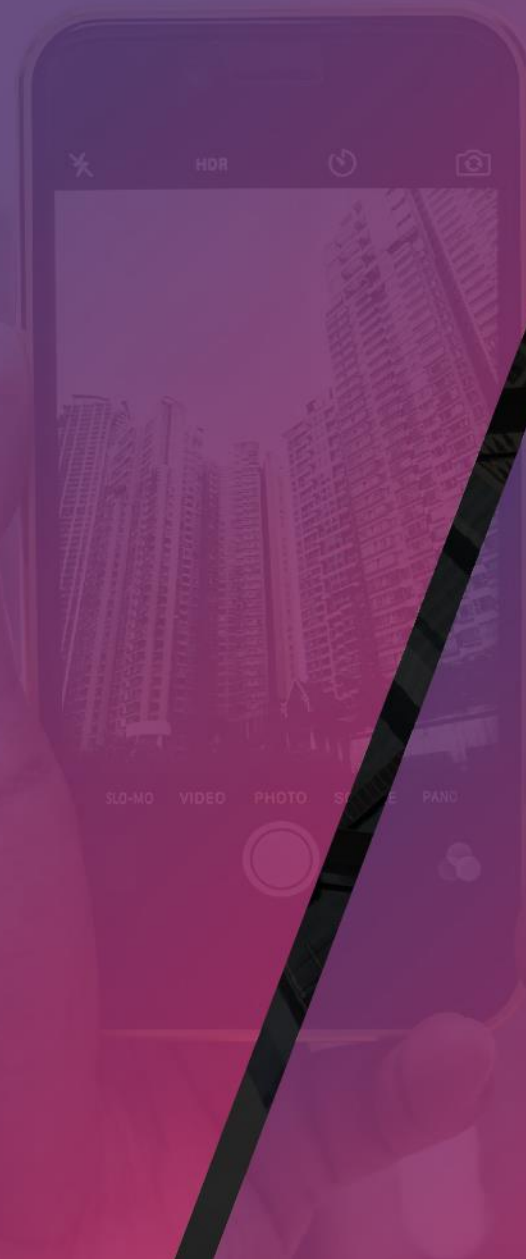




The Future of Insurance Starts Here

**IEL(Interface Expression Language)
Tables**



AGENDA

- IEL Table overview
- How to create IEL table and things to be considered before creation
- Significance of System Column
- Significance of User Defined Column
- Import and Export of IEL
- Customer Maintained table
- Add, Modify, Expire, Delete records of IEL Table
- Indexes in IEL table
- Database(Metadata) tables related to IEL table
- Do's and Don'ts in IEL Table

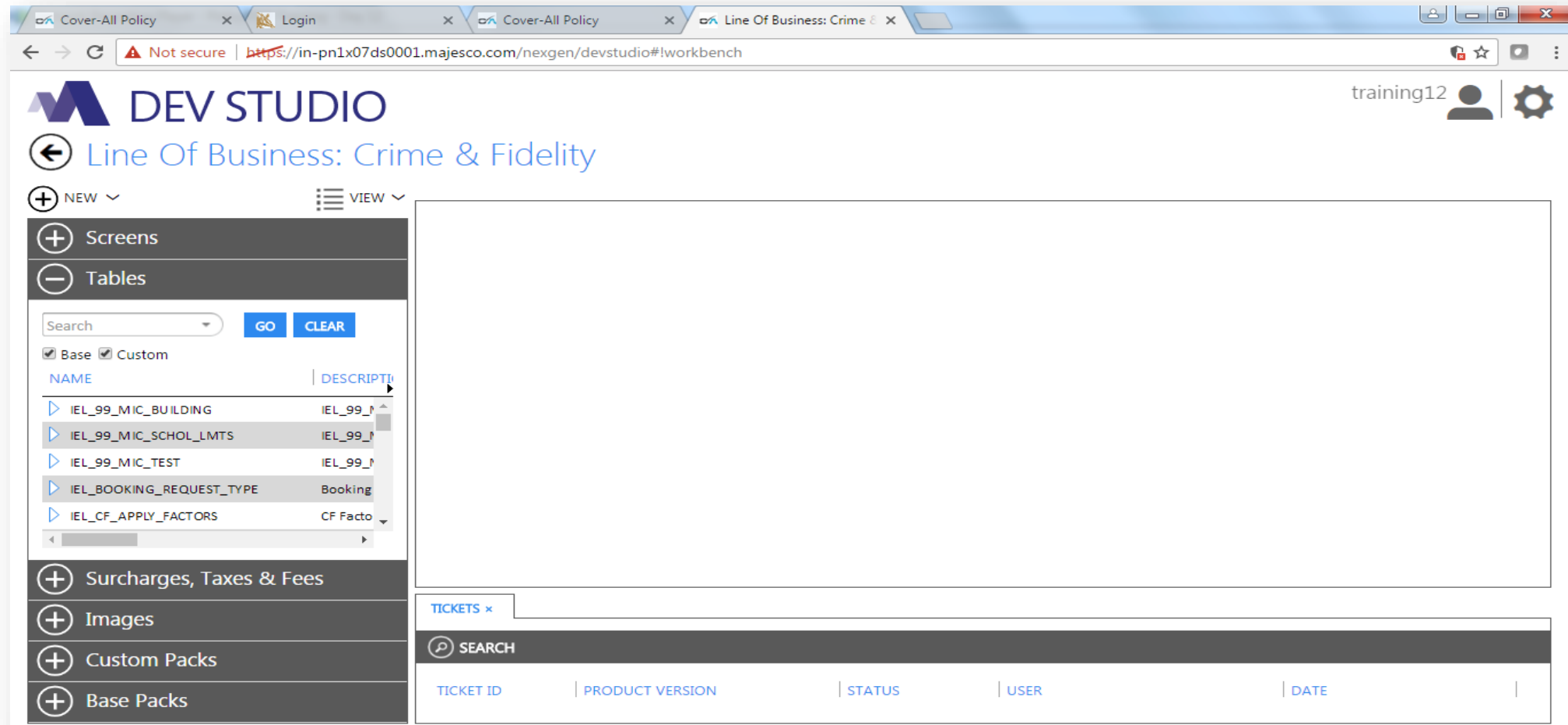


IEL tables

- Policy application is heavily dependent on Master data needed for business. Master data includes factors, drop down values like State and Zip Codes, Cancellation reason etc.
 - For example: ISO data, non-ISO (client specific) master data, data for populating lists, data required for rating, data required for configurations etc.
- To facilitate this requirement Dev studio offers a Plugin called as Tables. This plugin allows configuring new master table.

How to create IEL table and things to be considered before creation

IEL tables can be created and existing table can be viewed from “Table” plug-in in Dev Studio.



How to create IEL table and things to be considered before creation

Select New->Table

DEV STUDIO

training12

Line Of Business: Crime & Fidelity

+ NEW

- Ticket
- Table**
- Surcharge, Tax & Fee
- Image
- Custom Pack

Search

GO CLEAR

☒ Base ☒ Custom

NAME	DESCRIPTION
IEL_99_MIC_BUILDING	IEL_99_...
IEL_99_MIC_SCHOL_LMTS	IEL_99_...
IEL_99_MIC_TEST	IEL_99_...
IEL_BOOKING_REQUEST_TYPE	Booking
IEL_CF_APPLY_FACTORS	CF Facto

+ Surcharges, Taxes & Fees

+ Images

+ Custom Packs

+ Base Packs

TICKETS x

SEARCH

TICKET ID	PRODUCT VERSION	STATUS	USER	DATE
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How to create IEL table and things to be considered before creation

Select ticket for creating table

The screenshot shows the Majesco Dev Studio interface. A modal dialog titled "Select Ticket" is open, displaying a table of tickets. The background interface shows the "Line Of Business: Crime & Justice" workspace with a sidebar containing "Screens", "Tables", "Surcharges, Taxes & Fees", "Images", "Custom Packs", and "Base Packs".

Select Ticket Dialog:

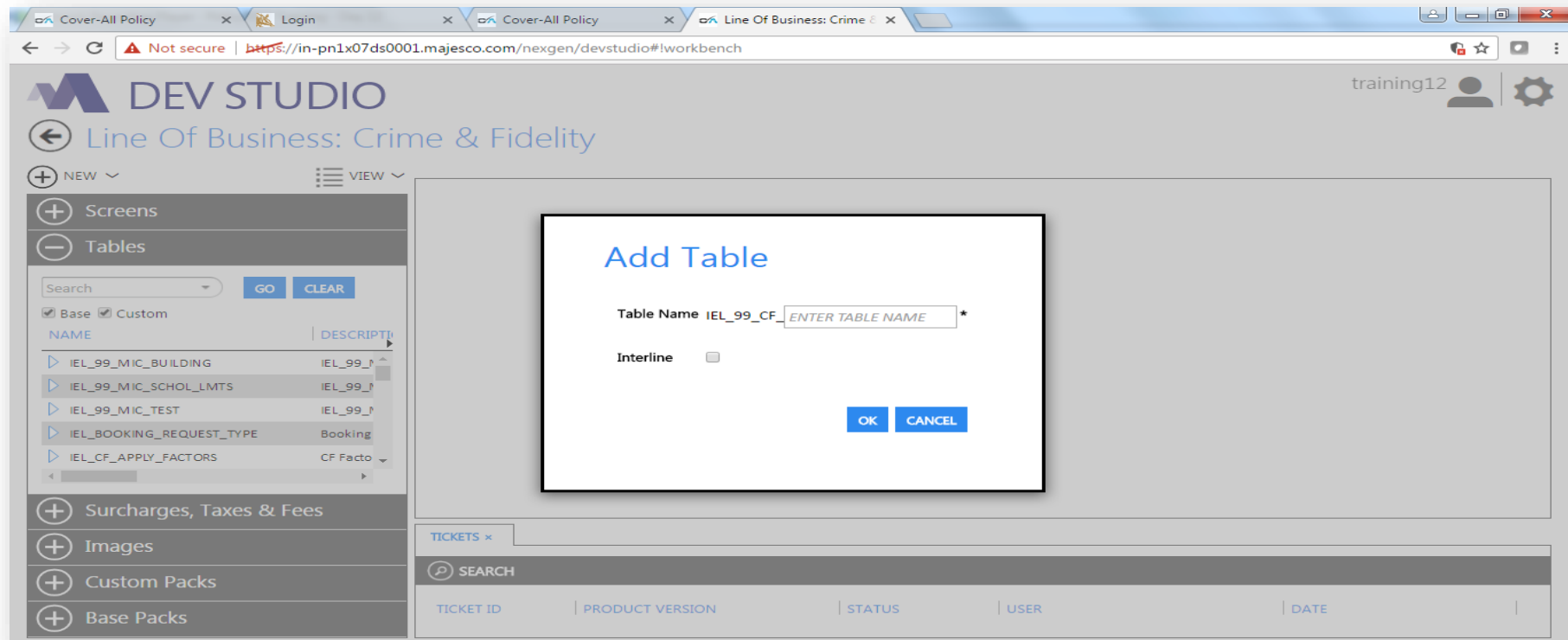
Modify Released Resource : ☐ Version : 53.0.0

Search GO CLEAR

TICKET ID	TICKET TITLE	TASK ID	TASK COMPONENT	STATUS	MODIFIED ON	M
11685120	Batch2 assignme			IN PROGRE	2017-03-16 12:10	tra
11685188	Batch2_School_			IN PROGRE	2017-03-16 10:35	Tra
11685117	Pradeep_Screen			IN PROGRE	2017-03-16 09:33	tra
11685116	Pradeep_Object			IN PROGRE	2017-03-16 09:29	tra
11685115	Barch#2 School.			IN PROGRE	2017-03-16 09:24	tra
11684870	Sud_CF			IN PROGRE	2017-03-15 15:57	tra
11684247	53.0.0-CF-94525			IN PROGRE	2017-02-03 04:43	mt
11679877	53.0.0_CF_SR#9			IN PROGRE	2017-01-30 02:30	sy
11679812	53.0.0/CF/SR/95			IN PROGRE	2017-01-27 09:52	mf

How to create IEL table and things to be considered before creation

Add a table .. LOB specific table. This type of table would have LOB code contained in the table name. For e.g. CF for crime and fidelity. Also the name would contain customer code for the login through which table is created. In below mentioned case the customer code is 99(Internal customer of Majesco).

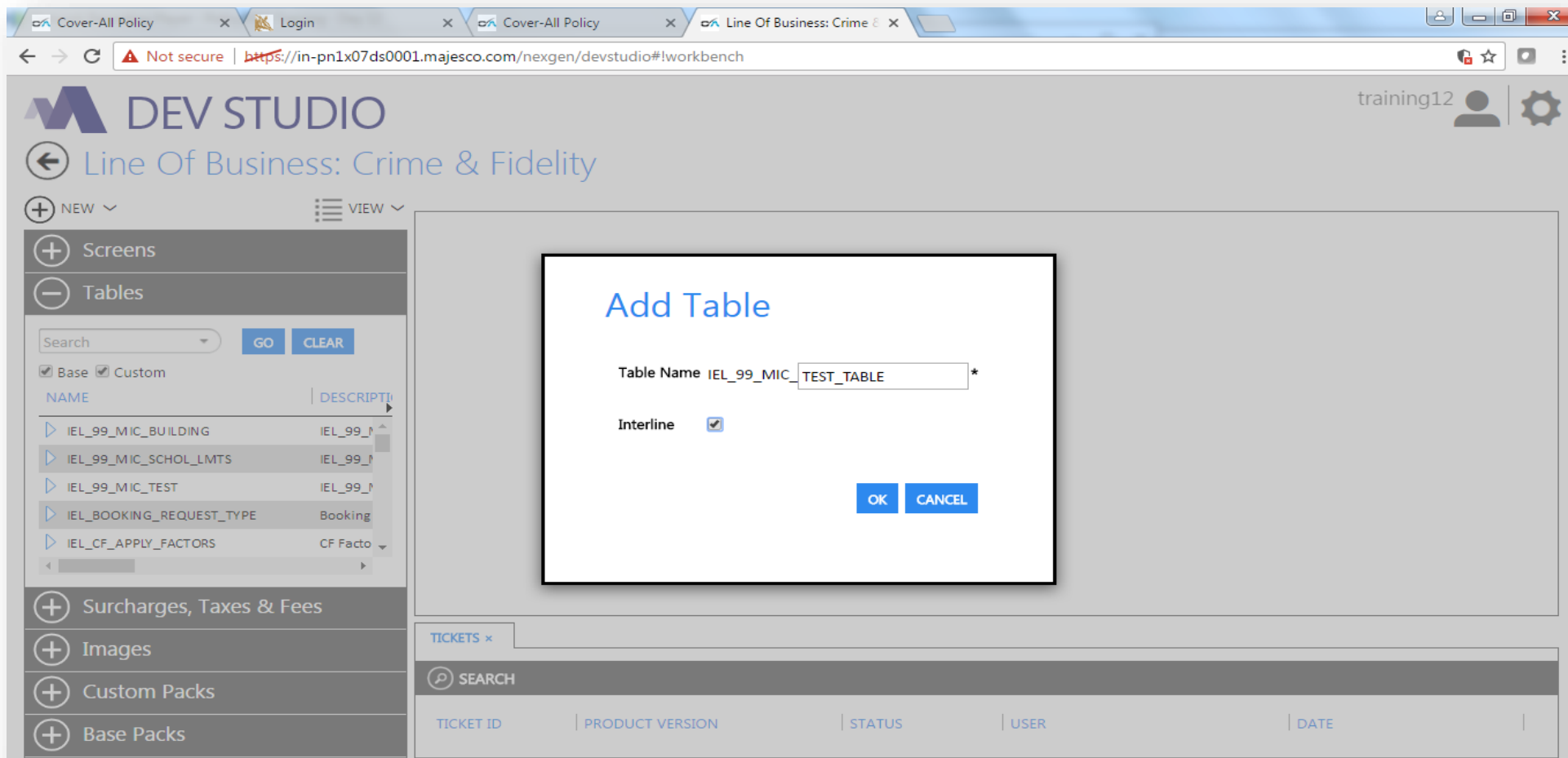


How to create IEL table and things to be considered before creation

- LOB specific IEL table would have scope limited to the mentioned LOB. For e.g. Consider an IEL table created for configuring a factor 'Loss cost'.
- Let's assume a field by name 'loss cost' on one of the coverage screen(Under Crime and fidelity) getting populated with a value from this IEL table.
- If the IEL table was created exclusively for Crime and Fidelity LOB then only Policies or Quotes for Crime and fidelity would be able to fetch value from this IEL table.

How to create IEL table and things to be considered before creation

- Add a table .. With “Interline” checked it signifies that the table is applicable for multiple line of Business



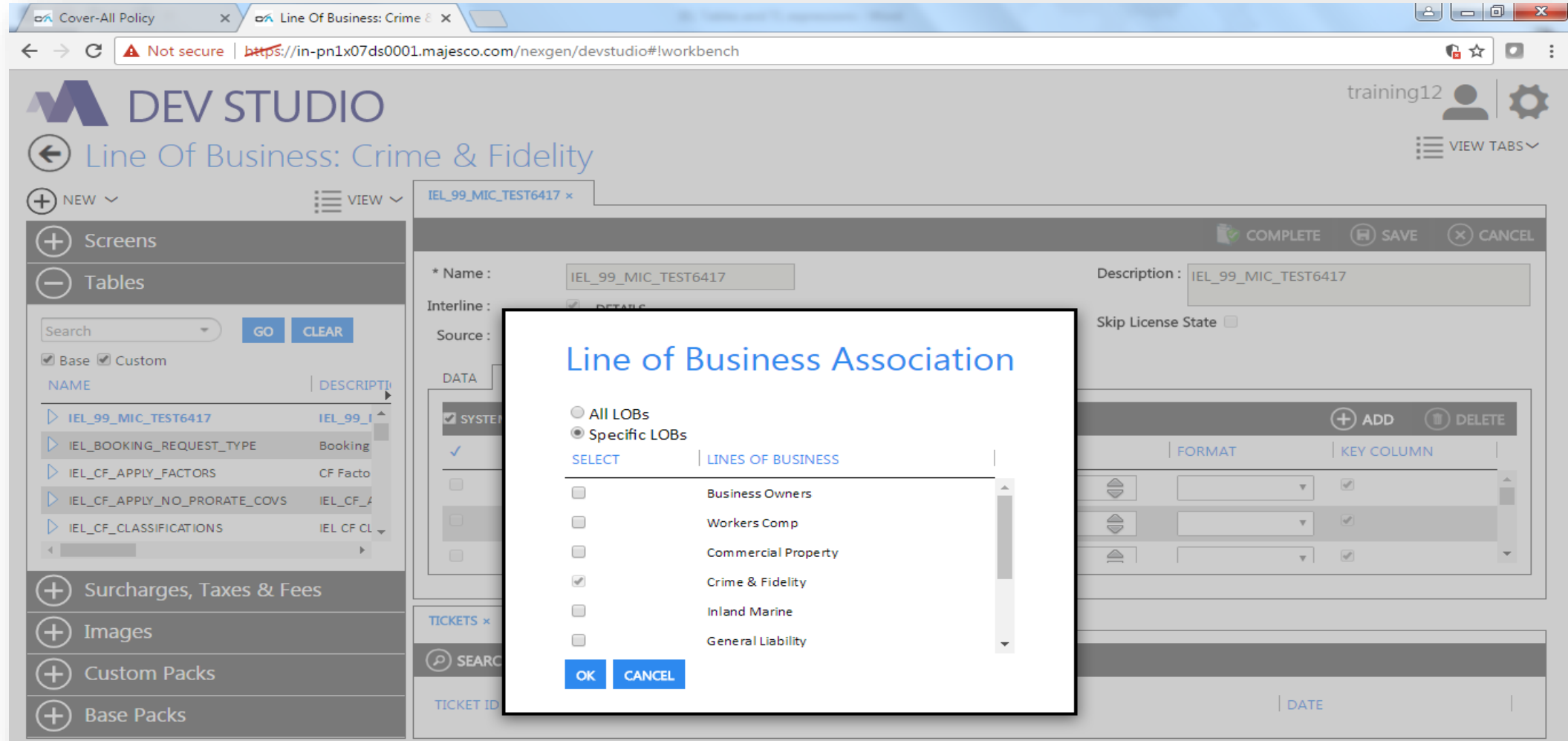
How to create IEL table and things to be considered before creation

- Either we can IEL applicable for all LOB or for more than one LOB

The screenshot displays the Majesco Dev Studio web application. The browser address bar shows the URL: <https://in-pn1x07ds0001.majesco.com/nexgen/devstudio#!workbench>. The page title is 'DEV STUDIO' and the breadcrumb is 'Line Of Business: Crime & Fidelity'. A sidebar on the left contains navigation options: 'NEW', 'VIEW', 'Screens', 'Tables', 'Surcharges, Taxes & Fees', 'Images', 'Custom Packs', and 'Base Packs'. The 'Tables' section is active, showing a list of tables including 'IEL_99_MIC_TEST6417'. A modal dialog box titled 'Line of Business Association' is centered on the screen. It contains two radio buttons: 'All LOBs' (selected) and 'Specific LOBs'. Below the radio buttons are 'OK' and 'CANCEL' buttons. The background interface shows the details for the 'IEL_99_MIC_TEST6417' table, including fields for 'Name', 'Description', 'Interline', 'Source', and 'Data'. There are also buttons for 'COMPLETE', 'SAVE', and 'CANCEL' at the top right of the table details section.

How to create IEL table and things to be considered before creation

- Selecting specific LOB's:



How to create IEL table and things to be considered before creation

- IEL table specified as Interline can be used in all LOBs or specific LOBs as mentioned during creation.
- Consider an IEL table created for configuring a factor 'Loss cost'.
- Let's assume a field by name 'loss cost' on one of the coverage screen(Under any LOB) getting populated with a value from this IEL table.
- If the IEL table was specified as Interline then Policies or Quotes for any LOB can be populated with a value from this IEL table.
- Or If the IEL table was specified as Interline(specified for Crime and Fidelity and Commercial Auto) then Policies or Quotes for Crime and Fidelity and Commercial Auto can be populated with a value from this IEL table.

How to create IEL table and things to be considered before creation

- By default there are system columns created for every IEL table. Other than that user defined columns can be created for configuring master data

The screenshot displays the DEV STUDIO web application interface. The browser address bar shows the URL: <https://in-pn1x07ds0001.majesco.com/nexgen/devstudio#!workbench>. The user is logged in as 'training12'. The application title is 'Line Of Business: Crime & Fidelity'. The left sidebar contains a navigation menu with options: Screens, Tables, Surcharges, Taxes & Fees, Images, Custom Packs, and Base Packs. The 'Tables' section is active, showing a list of tables including 'IEL_99_MIC_TEST6417'. The main panel shows the configuration for the selected table. The 'Name' field is 'IEL_99_MIC_TEST6417' and the 'Description' field is 'IEL_99_MIC_TEST6417'. The 'Interline' checkbox is checked, and the 'Source' is set to 'Custom'. The 'Skip License State' checkbox is unchecked. Below these fields are tabs for 'DATA', 'DEFINITION', 'INDEX', 'UNIT TESTING', and 'TAGS'. The 'DEFINITION' tab is active, showing a table with columns: NAME, TYPE, LENGTH, FORMAT, and KEY COLUMN. The table lists three system columns: 'STATE_CODE' (String, 8), 'COMPANY_CODE' (String, 8), and 'CUSTOMER_CODE' (String, 8). All three columns are marked as 'KEY COLUMN'. At the bottom of the screen, there is a 'TICKETS' section with a search bar and a table with columns: TICKET ID, PRODUCT VERSION, STATUS, USER, and DATE.

DEV STUDIO

Line Of Business: Crime & Fidelity

training12

VIEW TABS

NEW

Screens

Tables

Search

GO CLEAR

Base Custom

NAME DESCRIPTION

IEL_99_MIC_TEST6417 IEL_99_I

IEL_BOOKING_REQUEST_TYPE Booking

IEL_CF_APPLY_FACTORS CF Facto

IEL_CF_APPLY_NO_PRORATE_COVS IEL_CF_F

IEL_CF_CLASSIFICATIONS IEL CF CL

Surcharges, Taxes & Fees

Images

Custom Packs

Base Packs

IEL_99_MIC_TEST6417 x

COMPLETE SAVE CANCEL

* Name : IEL_99_MIC_TEST6417 Description : IEL_99_MIC_TEST6417

Interline : ☒ DETAILS

Source : Custom

Skip License State ☐

DATA DEFINITION INDEX UNIT TESTING TAGS

☒ SYSTEM COLUMNS ADD DELETE

	NAME	TYPE	LENGTH	FORMAT	KEY COLUMN
<input checked="" type="checkbox"/>	STATE_CODE	String	8		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	COMPANY_CODE	String	8		<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/>	CUSTOMER_CODE	String	8		<input checked="" type="checkbox"/>

TICKETS x

SEARCH

TICKET ID	PRODUCT VERSION	STATUS	USER	DATE
-----------	-----------------	--------	------	------

How to create IEL table and things to be considered before creation

- Things to be considered before creating IEL table
 - IEL table should be configured in below mentioned scenario
 - When there is huge number of master data to be configured. For e.g configuring Zip codes for all states.

The screenshot shows a software interface. On the left, a dropdown menu is open for 'DF-1000009079-00', showing options: 'Property' (selected), 'Coverages', 'Optional Coverages', and 'Premium Summary'. On the right, there is a form with the following fields: 'Zip' (with a red vertical bar and a magnifying glass icon), 'Zip Extension' (empty), 'Location Verification' (set to 'Unknown' with a location pin icon), and 'Suggested Address' (empty with a magnifying glass icon).

Choose Zip





SEARCH CLEAR PREVIOUS NEXT

ZIP/POSTAL CODE	CITY	STATE/PROVINCE CODE
12404	Accord	NY
12405	Acra	NY

How to create IEL table and things to be considered before creation

- When master data is dependent upon other data
- For e.g : In below mentioned scenario value of Zip code is dependent upon state. If value of state is 'New York' then zip code field should show values belonging to New York.

Choose Zip

 SEARCH  CLEAR  PREVIOUS  NEXT

ZIP/POSTAL CODE	CITY	STATE/PROVINCE CODE
12404	Accord	NY
12405	Acra	NY
14410	Adams Basin	NY
13606	Adams Center	NY
10579	Adams Corners	NY
13605	Adams	NY
11433	Addisleigh Park	NY
11434	Addisleigh Park	NY
14801	Addison	NY
11238	Adelphi	NY

How to create IEL table and things to be considered before creation

- IEL table for factors Requirement:
 - When master data for factors of coverage needs to be configured. And this data is dependent upon Policy attributes like LOB, State, Company etc.
(Here Policy attributes corresponds to system column of IEL table). And also in case if it is dependent upon any other user – defined columns
 - Assume a field by name 'Additional Lost cost factor' on screen. This field is dependent upon Policy attributes like LOB, State code, Customer code etc. And also it is dependent upon one another field named 'Class Code'.
 - Example : Let say Additional cost factor should have value as 0.4 if Policy is created for LOB 'General Ledger' (LOB code : GL), Customer for which Policy is to be created is '99', if state of Policy is 'New York' and Class code is '0074'.

How to create IEL table and things to be considered before creation

- Approach for creating IEL table
 - Developer needs to create an IEL table to meet this requirement. As this factor is applicable only for General Ledger LOB hence table should be LOB specific table and not an Interline Table.
- Below mentioned system columns would be automatically created
 - PRODUCT_VERSION
 - ADOPTION_TYPE
 - EFFECTIVE_DATE
 - LOB_CODE
 - PRODUCT_CODE
 - STATE_CODE
 - MARKET_SEGMENT_CODE
 - COMPANY_CODE
 - MULTISTATE_VERSION
 - CIRCULAR_NO
 - EXPIRATION_DATE
 - PROGRAM_CODE
 - EXP_MULTISTATE_VERSION
 - CUSTOMER_CODE
 - EXP_PRODUCT_VERSION

How to create IEL table and things to be considered before creation

- User defined column:
 - As from requirement we can understand that 'Additional Lost cost factor' value is dependent upon 'Class Code' as well.
 - But this value is not a policy attribute (System Column). Refer previous slide to see list of system define column
 - Hence for 'Class code' a user defined column needs to be created. Along with this a column for Additional Lost cost factor also needs to be created.

The screenshot shows the 'IEL_GL_ADDITIONAL_LC' table configuration interface. The 'Definition' tab is active, displaying a table of system columns. The table has columns for NAME, TYPE, LENGTH, FORMAT, and KEY COLUMN. Two columns are listed: CLASS_CODE (String, 4000) and FACTOR (Number). The interface also includes fields for Name, Description, Interline, Source, and Skip License State, along with a 'MODIFY TABLE' button.

NAME	TYPE	LENGTH	FORMAT	KEY COLUMN
CLASS_CODE	String	4000		
FACTOR	Number			

How to create IEL table and things to be considered before creation

- Inserting records in IEL table:
 - As per requirement(Refer slide no 15) the 'Additional Lost cost factor' has value 0.4 for LOB → GL, Customer Code → 99, State → NY and Class Code → 0074.
 - Hence record would be inserted as mentioned below:

* Name : IEL_GL_ADDITIONAL_LC Description : GL Additional Loss Cost

Interline : ☐

Source : Base Skip License State ☐

DATA DEFINITION INDEX UNIT TESTING TAGS

SEARCH ☒ Base ☒ Custom

CLASS_CODE	FACTOR	PROGRAM_CODE	STATE_CODE	COMPANY_CODE	EFFECTIVE_DATE	EXPIRATION_DATE	MARKET_SEGMENT_CODE
0074	0.4		NY				

* Name : IEL_GL_ADDITIONAL_LC Description : GL Additional Loss Cost

Interline : ☐

Source : Base Skip License State ☐

DATA DEFINITION INDEX UNIT TESTING TAGS

SEARCH ☒ Base ☒ Custom

MARKET_SEGMENT_CODE	PRODUCT_CODE	LOB_CODE	ADOPTION_TYPE	MULTISTATE_VERSION	EXP_MULTISTATE_VERSION	EXP_PRODUCT_VERSION	CIRCULAR_NO
		GL					

How to create IEL table and things to be considered before creation

- Relation between Policy creation and IEL Table:
 - Now when a Policy would be created from Policy application for Customer 99, General Ledger Line of Business, state of Policy is New York and the field Class code having value as '0074' then a query can be configured on Additional Lost Cost factor field which would select value as 0.4 from respective IEL table.

Significance of System Column

- Below mentioned are the system columns created for every IEL Table
 - PRODUCT_VERSION
 - ADOPTION_TYPE
 - EFFECTIVE_DATE
 - LOB_CODE
 - PRODUCT_CODE
 - STATE_CODE
 - MARKET_SEGMENT_CODE
 - COMPANY_CODE
 - MULTISTATE_VERSION
 - CIRCULAR_NO
 - EXPIRATION_DATE
 - PROGRAM_CODE
 - EXP_MULTISTATE_VERSION
 - CUSTOMER_CODE
 - EXP_PRODUCT_VERSION

Significance of System Column

- System Column corresponds to major Policy attributes
 - For e.g LOB_CODE corresponds to LOB for which Policy is being created.
- System column plays a vital role in deciding the most appropriate data (from User defined column) to be fetched from IEL table.
- If we refer previous example of configuring Additional Loss cost factor then the system Columns were populated with values depending upon which the value of Additional Loss cost factor needs to be fetched.
- Hence we can term System columns as decision making column assisting in selecting best match record as per policy attributes.
- The values in system column can be termed as conditions depending upon which master data needs to be fetched

Significance of User defined Column

- User defined Columns are of two types
 - Used in filtering of records.
 - Used to configure master data
- Filtering of records :
 - User defined column can be configure to play a role in filtering of data. This would be needed in the case where actual master data is dependent on data other than that of system column
 - If we refer previous example then Additional Loss cost factor was dependent on system Columns like LOB, STATE, CUSTOMER but in addition to this it was also dependent upon CLASS CODE which is not a system column. So it needs to be configured as user defined column.
 - Hence in this case user defined column in conjunction with System columns helps in selecting best match record.
- Configuring Master data :
 - Once of the most important use of user defined column is to configure master data that would be actual used to set value on field of user interface.

Export and Import of data in IEL Table

- Export and Import feature of IEL table is to provide ease of inserting, updating, deleting of record through excel worksheet.
- IEL table editor provides a user friendly interface to down the template with data(If data is present) and then do the operation and then upload the template with data.
- It is mandatory to use the existing template of IEL for export and import feature. Any other template is not allowed.

Line Of Business: Crime & Fidelity

IEL_CF_EXPOUNITBLANKET x

MODIFY TABLE

* Name : IEL_CF_EXPOUNITBLANKET

Description : Exposure Units Tables - Blanket Coverage

Interline : ☐

Source : Base

Skip License State ☐

DATA DEFINITION INDEX UNIT TESTING TAGS

SEARCH ☒ Base ☒ Custom

ADD DELETE IMPORT EXPORT

#	SOURCE	PRODUCT_VERSION	TABLE_NUMBER	FILING_ID	CIRCULAR_NUMBER	RELEASE_DATE	NTM	EMP_PREM_SWITCH	NUM_OF_EMP
<input type="checkbox"/>	Base		113.#1-7	CR-2006-ORU06	LI-CR-2007-022	03/23/2007	CR-AL-2007-RU-001	Employees/Persons	11

Import and Export of data in IEL Table

The screenshot displays the 'Line Of Business: Crime & Fidelity' interface. A modal window titled 'Export of IEL_CF_EXPOUNITBLANKET' is centered on the screen. The modal contains the text 'Exported Records:- 0/0' and a 'DOWNLOAD' button. The background interface shows the table configuration for 'IEL_CF_EXPOUNITBLANKET' with fields for Name, Interline, and Source. Below these fields are tabs for DATA, DEFINITION, INDEX, UNIT TESTING, and TABLE. The DATA tab is active, showing a table with columns: #, SOURCE, PRODUCT_VERSION, and TABLE_NUM. The table has one row with the value 'Base' under SOURCE and '113.#1-7' under TABLE_NUM. To the right of the table, there are buttons for DELETE, IMPORT, and EXPORT. The EXPORT button is highlighted.

Line Of Business: Crime & Fidelity

VIEW TABS

IEL_CF_EXPOUNITBLANKET *

MODIFY TABLE

* Name: IEL_CF_EXPOUNITBLANKET

Interline: ☐

Source: Base

DATA DEFINITION INDEX UNIT TESTING TABLE

SEARCH ☒ Base ☒ Custom

#	SOURCE	PRODUCT_VERSION	TABLE_NUM
<input type="checkbox"/>	Base		113.#1-7

Exported Records:- 0/0

DOWNLOAD

DELETE IMPORT EXPORT

EMP_PREM_SWITCH NUM_OF_EMP

01 Employees/Persons 11

Import and Export of data in IEL Table

- Sample excel downloaded

IEL_CF_EXPOUNITBLANKET [Protected View] - Excel

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

J318

	SOURCE	PRODUCT	TABLE NUMBER	FILING DATE	CIRCULAR NUMBER	RELEASE DATE	NTM	EMPLOYMENT SWITCH	NUMBER OF EMPLOYEES	EMPLOYMENT SWITCH	MINIMUM EMPLOYMENT	MAXIMUM EMPLOYMENT	NUMBER OF EMPLOYEES	LIMIT	EXPOSURE UNIT FACTOR	COMPANY	EFFECTIVE DATE	EXPIRATION DATE	STATE CODE	PROGRAM CODE	MARK
1																					
2	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 11						Each \$100	107.5			10/01/2007	01/01/2995	MO	
3	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 18						Each \$100	125			10/01/2007	01/01/2995	MO	
4	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		All of first			1000	1000000	10237.5			10/01/2007	01/01/2995	IN	
5	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		All of first			150	7500	951.25			10/01/2007	01/01/2995	IN	
6	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		All of first			300	7500	1341.25			10/01/2007	01/01/2995	IN	
7	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 3						125000	303.125			10/01/2007	01/01/2995	MO	
8	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 4						125000	303.125			10/01/2007	01/01/2995	MO	
9	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 3						750	46.25			10/01/2007	01/01/2995	IN	
10	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 8						Each \$100	100			10/01/2007	01/01/2995	IN	
11	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		All of first			2500	200000	11612.5			10/01/2007	01/01/2995	MO	
12	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		All of first			10000	750	2533.75			10/01/2007	01/01/2995	IN	
13	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		Each of ne 501		1000		15000	2			10/01/2007	01/01/2995	CO	
14	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		Each of ne 1001		1500		15000	1.6			10/01/2007	01/01/2995	CO	
15	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		Each of ne 1501		2500		15000	1.2			10/01/2007	01/01/2995	CO	
16	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 25						250	45.625			10/01/2007	01/01/2995	IN	
17	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 1						1000000	787.5			10/01/2007	01/01/2995	MO	
18	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 24						1000000	1357.5			10/01/2007	01/01/2995	MO	
19	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		All of first			200	5000	920			10/01/2007	01/01/2995	IN	
20	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		All of first			5000	5000	4545			10/01/2007	01/01/2995	IN	
21	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 4						7500	88.75			10/01/2007	01/01/2995	IN	
22	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		Each of ne 151		200		100	0.15			10/01/2007	01/01/2995	IA	
23	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		Each of ne 151		200		250	0.25			10/01/2007	01/01/2995	PA	
24	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees		All of first			300	2500000	7627.5			10/01/2007	01/01/2995	IA	
25	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 16						1000	85			10/01/2007	01/01/2995	IN	
26	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 16						1500000	1282.5			10/01/2007	01/01/2995	MO	
27	Base		113.#1-7	CR-2006-CL	CR-2007	03/23/2007	CR-AL-200	Employees 16						1500000	1282.5			10/01/2007	01/01/2995	MO	

Table Export Table Export 1

READY

Best practices during Import and Export of data in IEL Table

- Things to be noted in Export and Import:
 - Use single Quote(') while importing Varchar field which contains number value . Ex Class Code , territory code
 - Export IEL table Data (Having large data) With Adding Filters so that the total count of records exported in less.
 - While adding data through UI specify Product version as 15.00.00 but While using Import Functionality, inside Excel sheet specify product version as (150000) in a text format.
 - Clearing content of entire row and then adding data in same row would update the existing record of IEL table. If new record needs to be added then it is recommended to add new row and fill the values and then import the excel.
 - Use single Quote(') while importing Varchar field which contains Date value .

Customer Maintained table

- The consistent work done on IEL table is to add new records, expire existing records.
- To perform this activity the user needs to login into Dev Studio and do the necessary changes and then take a Build and Install. After this the data gets available on Policy application for use.
- In order to make this process more efficient the IEL are made available in Policy application itself. On Policy application it is known by name Customer Maintained table.
- To open Customer Maintained table Navigate to Administration → Set up → Customer Maintained Tables
- In order to make Customer maintained table created in Policy application the developers need to communicate with Policy custom Team to do the necessary configuration
- Ideally a user with admin role on policy application is given rights on Customer maintained table because the released records can be deleted from this screen.

Customer Maintained table

The screenshot displays the Majesco application interface. At the top, a dark navigation bar contains icons for Home, Reports, Administration, and Workbench. The 'Administration' menu is expanded, showing a list of options: Setup, Utilities, System Administration, Site, Products, Producers, Programs, Market Groups, Underwriters, Rules, Rule Sets, Document Packages, Policy Counters, Quote Counters, and Customer Maintained Tables. A search bar is also visible within the Administration menu, with options to search by 'Starts With' or 'Contains', a keyword input field, and a 'Search By' dropdown set to 'Quote / Customer Maintained Tables'.

The main dashboard area is divided into several sections:

- Marketing:** Includes a 'Producer' tile and a green tile with the text 'No messages.'
- New Business:** Features an orange 'Start New Account' tile and a dark grey 'New Policy' tile with a 'Select' dropdown and a green 'START' button. Below these is a 'New Quote' tile with a 'Select' dropdown.
- Policy Servicing:** Includes a blue 'Inforce Policies' tile with the number '1831' and a green 'Billing Workbench' tile.

Customer Maintained table

Customer Maintained Tables

SEARCH

Customization Type

Go

< PREVIOUS

1 - 25 of 57

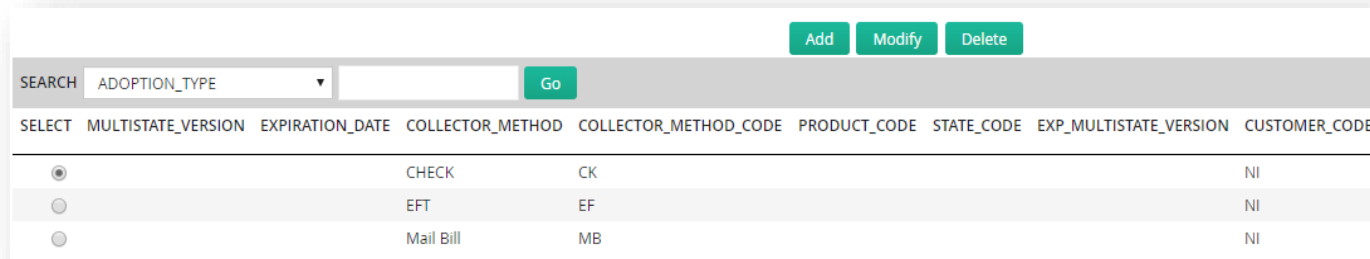
NEXT >

NAME	DESCRIPTION	PRODUCT	CUSTOMIZATION TYPE
IEL CF RTC MISC COVERAGE	Miscellaneous Coverages for CF	Crime and Fidelity	Customer Maintained
IEL COLLECTOR METHOD	COLLECTOR METHODS		Customer Maintained
IEL COMP RATING EXPO BASE	Composite Rating Exposure Base		Customer Maintained
IEL CP POL LVL MIN PREM	New Table For Adding Minimum Premium for Product CP		Customer Maintained

SEARCH ADOPTION_TYPE <input type="text"/> <input type="button" value="Go"/>										
SELECT	ADOPTION_TYPE	PROGRAM_CODE	PRODUCT_CODE	CIRCULAR_NO	EXP_MULTISTATE_VERSION	PRODUCT_VERSION	IEL_RESOURCE_ID	MARKET_SEGMENT_CODE	EFFECTIVE_DATE	EXPIRATION
<input type="radio"/>							EC330541D48ABF17E040FF0A25F932AE		2001-01-01	
<input type="radio"/>							EC330541D4A1BF17E040FF0A25F932AE		2001-01-01	
<input type="radio"/>							EC330541D4A5BF17E040FF0A25F932AE		2001-01-01	
<input type="radio"/>							EC330541D4A8BF17E040FF0A25F932AE		2001-01-01	
<input type="radio"/>							EC330541D4AABF17E040FF0A25F932AE		2001-01-01	
<input type="radio"/>							EC330541D4AEBF17E040FF0A25F932AE		2001-01-01	
<input type="radio"/>							EC330541D4B0BF17E040FF0A25F932AE		2001-01-01	
<input type="radio"/>							EC330541D4C2BF17E040FF0A25F932AE		2001-01-01	

Customer Maintained table

- There are three operations allowed on records :
 - Add
 - Adding a new record in IEL table
 - Modify
 - Modifying an existing record by changing values of columns
 - Delete
 - Deleting an existing record. User needs to take utmost care while deleting any record from table because It may impact policies/Quotes where the data of record may be used.
 - Deletion of record should be done only when the business is very much sure that the data of record which is being deleted is no where going to be used. For e.g If a Business have decided to stop using check payment method for policies then they can delete the master data for check.



SELECT	MULTISTATE_VERSION	EXPIRATION_DATE	COLLECTOR_METHOD	COLLECTOR_METHOD_CODE	PRODUCT_CODE	STATE_CODE	EXP_MULTISTATE_VERSION	CUSTOMER_CODE
<input checked="" type="radio"/>			CHECK	CK				NI
<input type="radio"/>			EFT	EF				NI
<input type="radio"/>			Mail Bill	MB				NI

Add, Modify, Delete columns in IEL Table

- Addition of records:
 - Depending upon Business scenario there may be requirement of adding new master data to the IEL table. Mostly it is in case where Bureau(like ISO, NCCI) release change in increase in value of factor, or a new payment method to be allowed in business
 - As factors are configured using IEL table the newly mentioned factor can be added as a new record.

*IEL_GL_ADDITIONAL_LC *

COMPLETE SAVE CANCEL

* Name : IEL_GL_ADDITIONAL_LC Description : GL Additional Loss Cost

Interline : ☐ Skip License State ☐

Source : Base

DATA DEFINITION INDEX UNIT TESTING TAGS

SEARCH ☒ Base ☒ Custom ADD DELETE IMPORT EXPORT

#	SOURCE	PRODUCT_VERSION	CLASS_CODE	FACTOR	PROGRAM_CODE	STATE_CODE	COMPANY_CODE	EFFECTIVE_DATE	EXPIRATION_DATE
<input checked="" type="checkbox"/>	Custom		0075	0.5		NY		12/01/2019	
<input type="checkbox"/>	Custom		0074	0.4		NY		01/01/2019	

Add, Modify, Delete columns in IEL Table

- Modifying/Deleting of records:
 - The developers would be able to modify or delete an existing record from IEL table only till the changes are not released. Once the changes are released then the developers would not be allowed to modify or delete the value/record except that of mentioning expiration date for record.
 - But if business needs a new value of factor to be added. For e.g for class Code 0074 the factor should be 0.6 then a new record would be added with effective date as greater than of previous record. So once this changes are deployed on Policy application than all the policies having control date \geq Effective date of newly added record should have the factors applied

The screenshot displays the configuration interface for the IEL_GL_ADDITIONAL_LC table. The interface includes a header with 'COMPLETE', 'SAVE', and 'CANCEL' buttons. Below the header, there are fields for 'Name' (IEL_GL_ADDITIONAL_LC), 'Interline' (checkbox), 'Source' (Base), 'Description' (GL Additional Loss Cost), and 'Skip License State' (checkbox). The main section is a table with columns: #, SOURCE, PRODUCT_VERSION, CLASS_CODE, FACTOR, PROGRAM_CODE, STATE_CODE, COMPANY_CODE, EFFECTIVE_DATE, and EXPIRATION_DATE. The table contains two records: one with CLASS_CODE 0075 and FACTOR 0.5, and another with CLASS_CODE 0074 and FACTOR 0.4. The table also has a 'SEARCH' bar and 'ADD', 'DELETE', 'IMPORT', and 'EXPORT' buttons.

#	SOURCE	PRODUCT_VERSION	CLASS_CODE	FACTOR	PROGRAM_CODE	STATE_CODE	COMPANY_CODE	EFFECTIVE_DATE	EXPIRATION_DATE
1	Custom		0075	0.5		NY		12/01/2019	
2	Custom		0074	0.4		NY		01/01/2019	

Add, Modify, Delete columns in IEL Table

- Expiration of records:
 - The developers can expire the released record.
 - But they need to analyze the impact of this activity. Because after expiring a record all the Policies having control Date > Expiry Date of record would not have corresponding master data available for it.

DATA

DEFINITIONINDEXUNIT TESTINGTAGS

SEARCH

☒ Base☒ Custom

+

ADD

🗑

DELETE

↕

IMPORT

⬇

EXPORT

SOURCE	PRODUCT_VERSION	CLASS_CODE	FACTOR	PROGRAM_CODE	STATE_CODE	COMPANY_CODE	EFFECTIVE_DATE	EXPIRATION_DATE
Custom		0075	0.5		NY		11/02/2019	
Custom		0074	0.4		NY		01/01/2019	11/01/2019

- In above mentioned scenario all the Policies having control date between 1-Jan-19 and 1-Nov-19 would have factor applied as 0.4
- But all Policies having control date >= 2-Nov-19 would have factor applied as 0.5

Indexes in IEL table

- As indexes are mainly used to provide quick access to rows in a table, the IEL tables already have an in-built Index created on all system columns.
- This is because system column plays an important role in filtering out the required master data.
- For e.g if LOB → GL, Customer Code → 99, State → NY and then Factor should be fetched as 0.4
- In above mentioned example the user defined column 'Factor' is dependent upon system columns LOB, Customer Code, State and like this most of the master data is dependent upon system column hence Indexes are automatically created on system columns

The screenshot displays the configuration interface for an IEL table, specifically the 'INDEX' tab. At the top, the 'Name' is set to 'IEL_GL_ADDITIONAL_LC' and the 'Description' is 'GL Additional Loss Cost'. The 'Source' is 'Base'. Below these fields are tabs for 'DATA', 'DEFINITION', 'INDEX' (selected), 'UNIT TESTING', and 'TAGS'. The main area contains a list of columns to be indexed. The first column, 'GL_ADDITIONAL_LC_NUTL', is already added. A second column, 'STATE_CODE', is being added with the following configuration: 'Ignore Null' is checked, the operator is '@@', 'Ignore Case' is unchecked, and the sort order is 'ASCENDING'. A 'DELETE' button is visible next to the first column.

NAME	FUNCTION	SORT
GL_ADDITIONAL_LC_NUTL		
STATE_CODE	Ignore Null @@ Ignore Case	ASCENDING

Indexes in IEL table

- Factor is also dependent upon a user defined column(class code) along with the system column.
- In such scenario if user defined column also plays a role in filtering along with System column then user defined column also needs to be part of Index.
- This can be done by marking the column as key column while adding column in definition section of editor.
- Or the column can be drag and dropped to Index section.
- Please refer below mentioned screenshot where user defined column **COVERAGE_TYPE** is part of index.

* Name : IEL_GL_COVERAGE_TYPE Description : GL Coverage Types

Interline : ☐ Skip License State ☐

Source : Base

DATA DEFINITION **INDEX** UNIT TESTING TAGS

Drop a column here to define index table content.

GL_COVERAGE_TYPE_NUTL

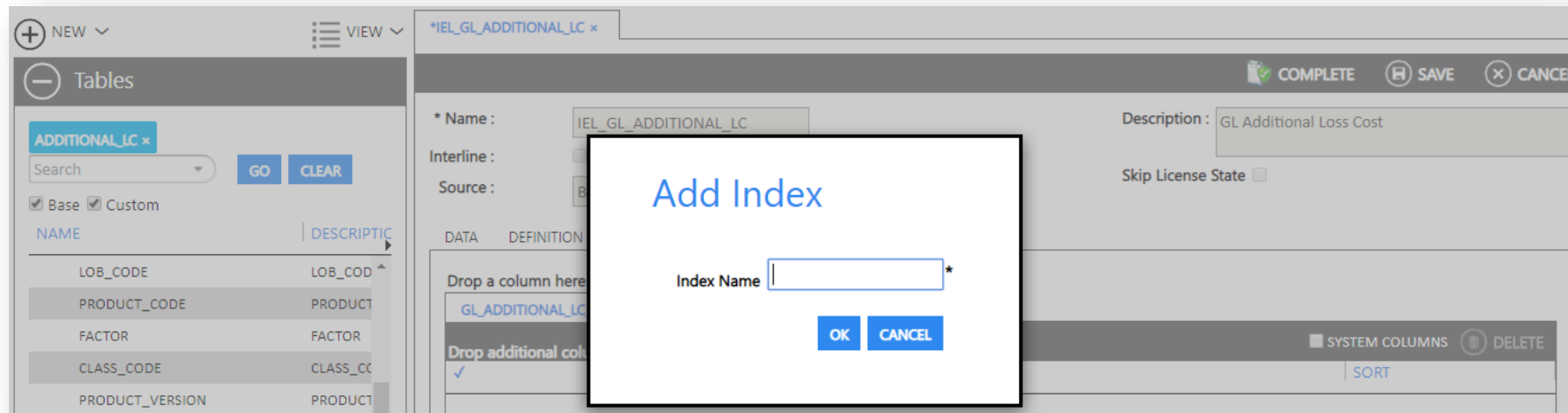
Drop additional columns here to add to this index.

	NAME	FUNCTION	SORT
<input checked="" type="checkbox"/>	COVERAGE_TYPE	<input checked="" type="checkbox"/> Ignore Null -9.999999999999999	<input type="checkbox"/> Ignore Case ASCENDING

SYSTEM COLUMNS DELET

Indexes in IEL table

- If the required master data needs to be filtered out solely depending upon user defined column then a separate index needs to be created having only user defined column
- For e.g if we consider the example where 'Additional loss cost factor' should have value as 0.4 if Class Code(User defined Column). In this case 'Additional loss cost factor' is solely dependent upon Class code and not dependent upon any system column. In this case we can create a new Index by dragging and dropping Class Code in section "Drop a column here to define index table content".



Indexes in IEL table

- Give a name to the index

*IEL_GL_ADDITIONAL_LC x

* Name : IEL_GL_ADDITIONAL_LC

Interline : ☐

Source : B

DATA DEFINITION

Drop a column here

GL_ADDITIONAL_LC

Drop additional col

✓

Add Index

Index Name *

OK CANCEL

*IEL_GL_ADDITIONAL_LC x

COMPLETE SAVE CANCEL

* Name : IEL_GL_ADDITIONAL_LC

Description : GL Additional Loss Cost

Interline : ☐

Source : Base

Skip License State ☐

DATA DEFINITION INDEX UNIT TESTING TAGS

Drop a column here to define index table content.

GL_ADDITIONAL_LC_NUTL

Drop additional columns here to add to this index.

SYSTEM COLUMNS DELETE

✓	NAME	FUNCTION	SORT
<input type="checkbox"/>	CLASS_CODE	<input type="checkbox"/> Ignore Null <input type="checkbox"/> Ignore Case	ASCENDING ▼

Metadata tables for IEL tables

- After creation of table meta data, the data goes in below tables

Table Name	Table Description	Description
1	PS_TABLE	It holds a table name.
2	PS_TABLE_COLUMN	It holds the column names of table.
3	PS_TABLE_INDEX	It holds the table index names.
4	PS_TABLE_INDEX_COLUMN	It holds the column names under index.

Metadata tables for IEL tables

- Every content/configuration in Dev Studio is considered as a resource and entry is made into **DS_RESOURCE** table
 - Relation between ps_table and ds_resource
 - **Select * from ps_table, ds_resource where pta_resource_id = dsr_gid order by 1 desc;**

DSR_RESOURCE_TYPE = TABLE
DSR_LOB_CODE = {Code of LOB Selected}
DSR_PRODUCT_CODE = null
- The DSR_LOB_CODE will have some value if we create table for any LOB, and DSR_PRODUCT_CODE will be null.
- The DSR_PRODUCTCODE will have some value if we create table for any Product, and DSR_LOB_CODE will be null.
- The DSR_LOB_CODE and DSR_PRODUCT_CODE both will be null for common table.

Metadata tables for IEL tables

- Executing below mentioned query for IEL_GL_ADDITIONAL_LC:
**Select * from ps_table, ds_resource where pta_resource_id = dsr_gid
and pta_name like 'IEL_GL_ADDITIONAL_LC'
order by 1 desc;**
- Refer below mentioned attachment to see the result of above mentioned query



Microsoft Excel
97-2003 Worksheet

- **DSR_RESOURCE_OWNER**
 - It will be customer code or base product code.
- **DSR_RELEASE_NO**
 - It will be null if not released to any customer
- **DSR_UUID**
 - It an unique ID and it will be used when we are building the media

Metadata tables for IEL tables

- Relation between **ps_table** and **ps_table_column**
 - Select * from ps_table_column, ps_table where ptc_table_id = pta_resouce_id and pta_name = 'TABLE_NAME' order by 1 desc;
- Relation between **ps_table**, **ps_table_column** and **ps_table_column** and **ds_resource**
 - Select * from ps_table_column, ps_table, ds_resource where ptc_table_id = pta_resouce_id and ptc_resource_id = dsr_gid and pta_name = 'TABLE_NAME' order by 1 desc;
- Table Index
 - There is one default index for every table ends with '**NU_TL**'.
We can add columns to index by drag and drop from 'Tables' plugin.
 - Select * from ps_table_index, ps_table where pti_table_id = pta_resouce_id and pta_name = 'TABLE_NAME' order by 1 desc;

Metadata tables for IEL tables

- **Actual Table in Database**
 - The new table is get created with "**TABLE_NAME**" + "_".
 - For e.g if we create a new IEL table 'IEL_GL_ADDITIONAL_LC' from Dev Studio then in database a table is created by name **IEL_GL_ADDITIONAL_LC_**
 - Two views also get created one with actual name "**TABLE_NAME**" i.e "**IEL_GL_ADDITIONAL_LC**" and other with IEO view i.e "**IEO_GL_ADDITIONAL_LC**"
 - This tables will be available in corresponding schema of DEV STUDIO, and it will be added in Policy application's schema after executing build and install.

Best practices for IEL Table

- Use single Quote(') while importing Varchar field which contains number value . Ex Class Code , territory code
- While adding a new COLUMN its name must always in CAPITAL letters
- Export IEL table Data (Having large data) With Adding Filters so that the total count of records exported in less.
- Always enter effective date when entering data in IEL tables do not leave it NULL
- Do make sure that your table name does not exceed length of 25 character, as table name gets a prefix as "C_"
- While adding data through UI specify Product version as 15.00.00 but While using Import Functionality, inside Excel sheet specify product version as (150000) in a text format.
- Use single Quote(') while importing Varchar field which contains Date value



THANK YOU!

