

What's New in CA IDMS Since 19.0 GA?

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Agenda

- 1 CONTINUOUS DELIVERY & PORTFOLIO SIMPLIFICATION
- 2 IMPLEMENTED COMMUNITY IDEAS
- 3 INTEGRATION WITH OTHER PRODUCTS



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Continuous Delivery

- CA IDMS 19.0 was GA complete in August 2016
- Delivering enhancements as PTFs to CA IDMS 19.0
 - Updated documentation via DOCOPS
 - Developed, tested, and user validated via agile process
 - Increased value that is easy to deploy
- A deeper dive into what we've delivered since then



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Portfolio Simplification

- Most options now included in base product
 - Includes SQL, Server, and Web Services
 - Exceptions are Presspack and CA IDMS Performance Monitor
- Supported for both IDMS 18.5 and IDMS 19.0
 - CA IDMS 18.5 requires additional license keys
 - CA IDMS 19.0 enhancement RO96807 enables all new options
- CA IDMS installs all mainframe code with base software
 - No additional installation required
 - Download IDMS Server client code from CA support on-line
- To use components update RHDCPINT module



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Implemented Community Ideas

Implemented Community Ideas

zIIP Exploitation

- zIIP suspended instead of stopped when following loaded from unauthorized library (RO92366)
 - Database procedure
 - System mode SQL procedure
 - System mode user exit
- zIIP processing can be re-enabled without restarting CV if suspended due to CA IDMS nucleus module loaded from unauthorized library (RO93622)
- DCMT Vary ZIIP Online/OFFline

Implemented Community Ideas (cont.)

- Installation upgrade (RO93158)
 - During upgrade install, only dictionary entities that have been changed are updated
 - List of changed entities in CAGJSRC member IDDXI5J0
- DCPROFIL enhanced to display current SVC module (RO96512)

```

* CURRENT SVC *
SVC NUMBER (#SVCOPT): 172   CV NUMBER (CENTRAL VERSION #): 222
SVC NAME: IDMSMSVC   SVC COMPILE DATE: 20140806
SVC RELEASE: 19.0   SVC COMPILE TIME: 15.49
SVC FMID: CAGJJ00   SVC PTF: N/A

* SVC OPTIONS *
AUTHREQ: NO   CVKEY: UNSECURED
SMF: YES   SVCKLEN (ERE Extension length): 00112

* SVC CV TABLE *
CV LIST: 067 190 222

```

Implemented Community Ideas (cont.)

- Range of the number of EREs to allocated at system startup changed from 0 to 255 to 0 to 1000 (RO93347)
- Calculating the number of TCEs enhanced to prevent over-allocating memory below the 16Mb line (RO93347)

Implemented Community Ideas (cont.)

- Culprit enhanced to support Large Block Interface (LBI) for input and output files (RO95270)
- IDMSDMLC enhanced to support floating comments(*>) (RO96611)

```

DMLC0015      00582      READY EMP-DEMO-REGION *> WILL OBTAIN EMPLOYEE
                00583      USAGE-MODE IS RETRIEVAL.
                00584      MOVE 15 TO DML-SEQUENCE
                00585      CALL 'IDMS' USING SUBSCHEMA-CTRL
                00586      IDBMSCOM (37)
                00587      EMP-DEMO-REGION.
                00588      PERFORM IDMS-STATUS.
    
```



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Implemented Community Ideas (cont.)

- Batch ERUS job statistics enhanced to include job identifier, job name, accounting information (SO00360)
 - SMF Type 30 record content updated
 - New application monitor report
 - PMARPT21 Batch Job Accounting summary report

REPORT NO. 21		CA, INC.		mm/dd/yy		PAGE 1		
CA IDMS/PM nn.n volser		BATCH JOB ACCOUNTING SUMMARY REPORT						
DC SYSTEM VERSION #: 183		<----- YOUR COMPANY NAME ----->				DATA FROM: mm/dd/yy		
TASK CODE	TASK NUM	TASK START DATE	TASK START TIME	TASK END DATE	TASK END TIME	JOBNAME	JOB NUMBER	ACCOUNTING INFORMATION
IDMSDDL	34	8/21/17	09:33:07	8/21/17	09:33:07	THOJ0240	JOB00619	111400000
IDMSBCF	35	8/22/17	13:33:12	8/22/17	13:33:12	THOJ024A	JOB00633	1112000000.MAC
IDMSDDL	36	8/22/17	10:17:16	8/22/17	10:17:16	THOJ024A	JOB00634	1112000000.MAC
EMPLDAD	37	8/24/17	16:24:20	8/24/17	16:24:20	EMPLDAD1	JOB00655	108300000
EMPTST	38	8/25/17	11:13:17	8/25/17	11:13:17	EMPLDAD2	JOB00667	108300000
EMPTST	39	8/25/17	11:13:24	8/25/17	11:13:24	EMPLDAD2	JOB00667	108300000
EMPTST	40	8/25/17	11:13:27	8/25/17	11:13:27	EMPLDAD2	JOB00667	108300000
IDMSBCF	41	8/26/17	14:32:26	8/26/17	14:32:26	THOJ024H	JOB00701	121400000
IDMSDDL	42	8/27/17	08:47:31	8/21/17	08:47:32	THOJ024H	JOB00793	111200000



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Implemented Community Ideas (cont.)

- IP address (IPV4 or IPV6) added to task statistic information (RO97013)
 - SMF Type 30 record content updated
 - New SREPORT 004 IDMS-DC Task Statistics by IP Address
 - New SREPORT 22 IDMS-DC Transaction Statistics by IP Address

```
REPORT NO. 04                                IDMS-DC TASK STATISTICS BY IP ADDRESS R19.0                                05/07/18 PAGE 1
SELECTED FROM: 00000 00:00                    TO: 00000 00:00
ACTUAL: 17065 14:02                          TO: 17065 14:03
CV JOB NAME: SUPST250
CV NUMBER: 250

IP ADDRESS: ::ffff:7f00:1

      2      NUMBER TASK EXECUTIONS
      2      NUMBER PROGRAMS CALLED                      1      NUMBER PROGRAMS LOADED
      0      NUMBER TERMINAL READS                        0      NUMBER TERMINAL WRITES
      0      NUMBER TERMINAL ERRORS                      50     NUMBER GETSTG REQUESTS
      0      NUMBER GETSCR REQUESTS                      0      NUMBER PUTSCR REQUESTS
      0      NUMBER DELSCR REQUESTS                      0      NUMBER GETQUE REQUESTS
      0      NUMBER PUTQUE REQUESTS                      0      NUMBER DELQUE REQUESTS
      56     NUMBER GETTIME REQUESTS                     0      NUMBER SETTIME REQUESTS
      0      NUMBER DB SERVICES REQUESTS                 0      NUMBER PAGES READ
```



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Integration with Other Products

Test Data Manager (TDM)

- Generates sophisticated sets of test data from relational databases for robust application testing
- CA TDM supports extracting and generating test data for an SQL database
- May not work with all network databases because of limitations of INSERT with SQL
- In order to access and generate data for some network records a table procedure must be written



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Test Data Manager (TDM) (cont.)

- RO97698 Sample table procedures added to SAMPJCL
 - To show network databases can be accessed through SQL using TDM
 - Show how to convert table procedures using DML to use SQL
- SQL Quick Bridge (Quick Bridge) generates table procedures using network DML syntax



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Test Data Manager (TDM) (cont.)

Table procedure generated by Quick Bridge using DML

- AGJCOVEN
 - Target COVERAGE record (via EMPLOYEE)
- AGJHOSPN
 - Target HOSPITAL-CLAIM (via EMPLOYEE. COVERAGE)

```
CREATE TABLE PROCEDURE DEMO.EMP_COVERAGE
      (EMP_ID_0415          UNSIGNED NUMERIC (4,0) ,
      SEL_YEAR              UNSIGNED NUMERIC (4,0) ,
      SEL_MONTH             UNSIGNED NUMERIC (2,0) ,
      SEL_DAY               UNSIGNED NUMERIC (2,0) ,
      TERM_YEAR             UNSIGNED NUMERIC (4,0) ,
      TERM_MONTH            UNSIGNED NUMERIC (2,0) ,
      TERM_DAY              UNSIGNED NUMERIC (2,0) ,
      TYPE_CODE             CHAR (1) ,
      INS_PLAN_CODE         CHAR (3) )
EXTERNAL NAME AGJCOVEN
LOCAL WORK AREA 1024
GLOBAL WORK AREA 1024 ;
```



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Test Data Manager (TDM) (cont.)

Table procedure generated by Quick Bridge

- Modified to use SQL and Virtual Foreign Keys
- AGJCOVEQ
 - Target COVERAGE record (via EMPLOYEE)
- AGJHOSPQ
 - Target HOSPITAL-CLAIM (via EMPLOYEE. COVERAGE)
- DocOps details how to convert Quick Bridge generated table procedure to use SQL
 - Convert a Generated Table Procedure to Use SQL



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Using CA Development Environment for z Systems with CA IDMS

Agenda

- 1 WHAT IS CA DEVELOPMENT ENVIRONMENT FOR Z SYSTEMS?
- 2 EDITING AND COMPILING CA IDMS PROGRAMS
- 3 EXPLORE CA IDMS DATABASE
- 4 SUMMARY

What is CA Development Environment for z Systems?

CA Development Environment for z Systems

- It is a CA branded version of IBM Developer for z System
- Eclipse-based Integrated Development Environment
- Allows you to Edit and Build z/OS applications
- Bundled with CA plugins
 - CA Endevor SCM
 - CA Intertest
 - CA Mainframe Application Tuner
 - CA FileMaster Plus
 - CA SymDump

CA IDMS Use Cases

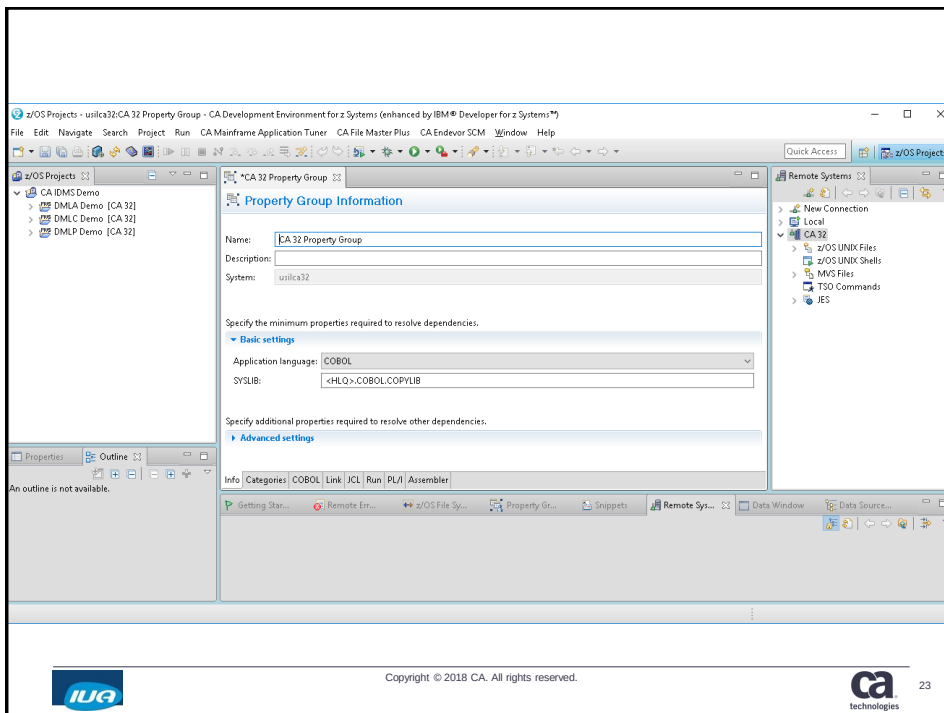
- Editing and compiling CA IDMS programs
 - COBOL, PL/I and Assembler
- Explore CA IDMS Databases
 - SQL and Network defined



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Editing and compiling CA IDMS programs

Sample REXX Exec Programs

- Provide Sample REXX execs
 - IDMSEMLC and IDMSEMLP
 - Tailor this to your specific environment
 - RO98318
- Invokes the IDMS preprocessor
- Able to recognize DML commands for COBOL and PL/1 programs on your text editor

CA32 Property Group: ACCTATC.chl

```

*RETRIEVAL
*NO-ACTIVITY-LOG
*DELIST
IDENTIFICATION DIVISION.
PROGRAM ID. ACCTATC.
ENVIRONMENT DIVISION.
IDMS-CONTROL SECTION.
PROTOCOL. MOVE ID IDMS-SC SERVO.
IDMS-RECORDS WITHIN WORKING-STORAGE.

DATA DIVISION.

SCHEMA SECTION.
DB EMPSS01 WITHIN EMPSCN VERSION 100.

WORKING-STORAGE SECTION.

01 MISC-WORK-FIELDS.
02 RECORD-COUNT PIC 99(2) VALUE IS +1.
02 SNNAME-FIELD PIC X(18).
02 FIRST-TIME-SWITCH PIC X(1) VALUE IS '0'.
02 STAT-TYPE PIC X(25) VALUE IS SPACES.

01 WE-EMP-NAME.
02 WE-EMP-LAST-NAME PIC X(15).
02 WE-EMP-FIRST-NAME PIC X(10).
02 FILLER PIC X(33).

01 COPY IDMS DB-STATISTICS.
  
```

Subsystem JES

Resource	Parent filter	Parent filter	Number of f...	Connection...
Retrieved Jobs	CN-CA32-c...	Not applica...	1	Yes
My Jobs	newma2-f1...	Not applica...	1	No
Active Jobs	newma2-f1...	Not applica...	1	No

Connection: CA32 - Host name: USJCA32 - Description: CA32

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CA32 Property Group: ACCTATC.chl

```

PERFORM IDMS-STATUS.
READY EMP-DEMO-REGION USAGE-MODE IS RETRIEVAL.
READY IDMS-DEMO-REGION USAGE-MODE IS RETRIEVAL.
PERFORM IDMS-STATUS.
MOVE 'RETRIEVAL STATISTICS' TO STAT-TYPE.
MOVE '0' TO FIRST-TIME-SWITCH.
PERFORM B010-EMPLOYEE-LOOP THRU B999-EMPLOYEE-EXIT.
PERFORM C010-INDEX-FIND THRU C999-INDEX-EXIT.
FINISH.
GOBACK.

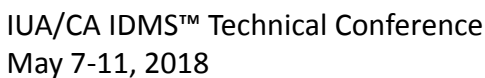
B010-EMPLOYEE-LOOP SECTION.
IF FIRST-TIME-SWITCH = '0'
MOVE '1' TO FIRST-TIME-SWITCH
OBTAIN FIRST EMPLOYEE WITHIN EMP-DEMO-REGION
ELSE
OBTAIN NEXT EMPLOYEE WITHIN EMP-DEMO-REGION.
IF ERROR-STATUS = '0100'
GO TO B999-EMPLOYEE-EXIT
ELSE
PERFORM IDMS-STATUS.
GO TO B010-EMPLOYEE-LOOP.
B999-EMPLOYEE-EXIT.
EXIT.

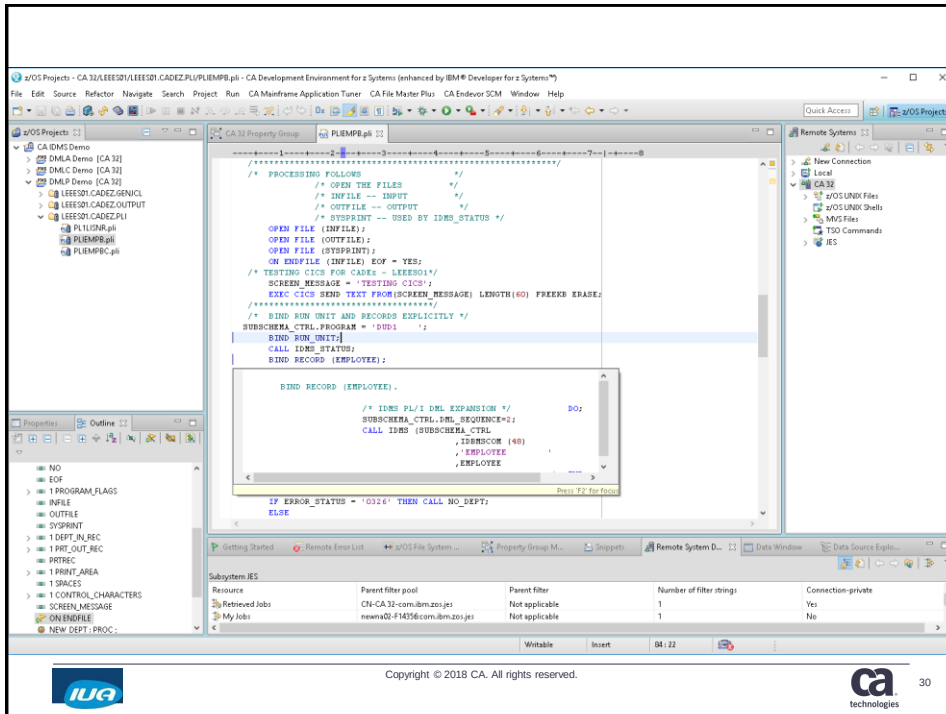
C010-INDEX-FIND SECTION.
  
```

Subsystem JES

Resource	Parent filter	Parent filter	Number of f...	Connection...
Retrieved Jobs	CN-CA32-c...	Not applica...	1	Yes
My Jobs	newma2-f1...	Not applica...	1	No
Active Jobs	newma2-f1...	Not applica...	1	No

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What is a Property Group?

- Named sets of property values
- Where you define resource properties
- Can be shared and reused among projects, systems, and users
- Once defined, can be applied to the z/OS projects and resources you create on that system
- Helps maintain consistency in your development and build environment

CA 32 COBOL Settings

Editor Configurations

Search Libraries

Called program search libraries:

Set SYSLIB properties

Preprocessor Integration

Select which preprocessor configuration to use when identifying preprocessor statements in an editor.

☐ Use local preprocessors

☒ Use remote preprocessors

Remote preprocessor configuration

REDX or CLIST invoking preprocessor:

LEES01.CLIST(DMSMLP)

Preprocessor output location:

LEES01.CADEZ.DMLC.DYSPCH

High-level qualifier for preprocessor data:

LEES01

Preprocessor parameters:

SYSDMS=LEES01.CADEZ.SYSDMS SYSLST=LEES01.CADEZ.DMLC.DYSLIST

Subsystem JES

Resource	Parent filter...	Parent filter	Number of f...	Connection...
Retrieved jobs	CN-CA 32...	Not applica...	1	Yes
My jobs	newn02-F1...	Not applica...	1	No
Active jobs	newn02-F1...	Not applica...	1	No

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CA 32 PL/I Settings

Editor Configurations

Search Libraries

Called program search libraries:

Set SYSLIB properties

Preprocessor Integration

Select which preprocessor configuration to use when identifying preprocessor statements in an editor.

☐ Use local preprocessors

☒ Use remote preprocessors

Remote preprocessor configuration

REDX or CLIST invoking preprocessor:

LEES01.CLIST(DMSMLP)

Preprocessor output location:

LEES01.CADEZ.DMLP.DYSPCH

High-level qualifier for preprocessor data:

LEES01

Preprocessor parameters:

SYSDMS=LEES01.CADEZ.SYSDMS SYSLST=LEES01.CADEZ.DMLP.DYSLIST

Subsystem JES

Resource	Parent filter pool	Parent filter	Number of filter strings	Connection-private
Retrieved jobs	CN-CA 32-com.ibm.zos.jes	Not applicable	1	Yes
My jobs	newn02-F14356com.ibm.zos.jes	Not applicable	1	No

Connection: CA 32 - Host name: USILCA32 - Description: CA32

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CA 32 Property Group IDMSM.C.cmd

```

*****
/* Read the options file written by the workbench */
/* *****
SAY "Reading the Options File..."
"ALLOC DA(1)(optfile(1)) F(INDD) SHR REUSE"
if rc < 0 then do
  SAY "Allocate of" optfile " Failed with RC" rc
  EXIT 8
end
"EXECIO * DISKR INDD (STEN optfiledata.FINIS"
if rc < 0 then do
  SAY "Read of" optfile " Failed with RC" rc
  "FREE FILE(INDD)"
  EXIT 8
end
"FREE FILE(INDD)"

optfilestr=""
do i = 1 to optfiledata.0
  optfilestr = optfilestr || optfiledata.i
end

/* Parse the invocation string */
/* *****
SAY "Parsing the Invocation String..."
parse var optfilestr . "<PROGRAM> sysinparm "</PROGRAM>" .
parse var optfilestr . "<OUTPUT> sysoutparm "</OUTPUT>" .
parse var optfilestr . "<STLIB> syslibparm "</STLIB>" .
parse var optfilestr . "<STLIBIN> syslibparm "</STLIBIN>" .
parse var optfilestr . "<STSPRINT> sysinparm "</STSPRINT>" .
parse var optfilestr . "<PARAMETERS> prepcon_parm "</PARAMETERS>" .
*****

```

Resource	Parent filter	Parent filter	Number of f...	Connection...
Retrieved Jobs	CN-CA 32...	Not applica...	1	Yes
My Jobs	newns02-F1...	Not applica...	1	No
Active Jobs	newns02-F1...	Not applica...	1	No

Subsystem JES

Resource	Parent filter pool	Parent filter	Number of filter strings	Connection-private
Retrieved Jobs	CN-CA 32-com.ibm.zos.jes	Not applicable	1	Yes
My Jobs	newns02-F14356com.ibm.zos.jes	Not applicable	1	No

z Systems LPEX Editor

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CA 32 Property Group IDMSM.C.cmd

```

*****
/* Read the options file written by the workbench */
/* *****
SAY "Reading the Options File..."
"ALLOC DA(1)(optfile(1)) F(INDD) SHR REUSE"
if rc < 0 then do
  SAY "Allocate of" optfile " Failed with RC" rc
  EXIT 8
end
"EXECIO * DISKR INDD (STEN optfiledata.FINIS"
if rc < 0 then do
  SAY "Read of" optfile " Failed with RC" rc
  "FREE FILE(INDD)"
  EXIT 8
end
"FREE FILE(INDD)"

optfilestr=""
do i = 1 to optfiledata.0
  optfilestr = optfilestr || optfiledata.i
end

/* Parse the invocation string */
/* *****
SAY "Parsing the Invocation String..."
parse var optfilestr . "<PROGRAM> sysinparm "</PROGRAM>" .
parse var optfilestr . "<OUTPUT> sysoutparm "</OUTPUT>" .
parse var optfilestr . "<STLIB> syslibparm "</STLIB>" .
parse var optfilestr . "<STLIBIN> syslibparm "</STLIBIN>" .
parse var optfilestr . "<STSPRINT> sysinparm "</STSPRINT>" .
parse var optfilestr . "<PARAMETERS> prepcon_parm "</PARAMETERS>" .
*****

```

Resource	Parent filter pool	Parent filter	Number of filter strings	Connection-private
Retrieved Jobs	CN-CA 32-com.ibm.zos.jes	Not applicable	1	Yes
My Jobs	newns02-F14356com.ibm.zos.jes	Not applicable	1	No

Subsystem JES

Resource	Parent filter pool	Parent filter	Number of filter strings	Connection-private
Retrieved Jobs	CN-CA 32-com.ibm.zos.jes	Not applicable	1	Yes
My Jobs	newns02-F14356com.ibm.zos.jes	Not applicable	1	No

z Systems LPEX Editor

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Sample JCL Procedure Programs

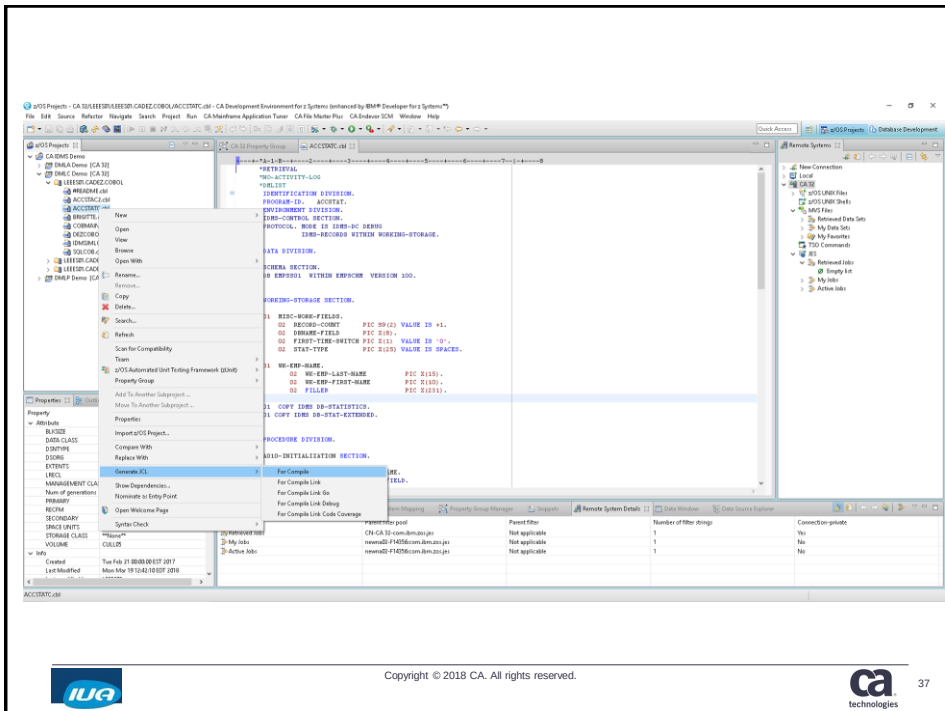
- Provide JCL Procedure Programs
 - IDMSJMLC, IDMSJMLP and IDMSJMLA
 - RO98318
- Generated JCL is set up to call the JCL procedures
 - Calls the IDMS pre-compiler and compiler



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The screenshot displays the CA Development Environment for z Systems. The main window shows a JCL procedure program with the following sections:

```

*RETRIEVAL
*NO-ACTIVITY LOG
*DEL LIST
*IDENTIFICATION SECTION
PROGRAM-ID ACCTSTAT.
ENVIRONMENT SECTION.
PROTOCOL NAME IS DBMS-AC-DBMS.
DBMS-RECORDS WITHIN WORKING-STORAGE.

DATA SECTION.
00 EMPID1 WITHIN EMPIDMS VERSION 100.

SCHEMA SECTION.
WORKING-STORAGE SECTION.
01 REORG-WORK-FIELDS.
02 REORG-COMMIT PIC 99(2) VALUE IS +1.
02 REORG-FILED PIC 9(8).
02 FIRST-TIME-ENTER PIC 9(1) VALUE IS '0'.
02 STAT-TYPE PIC 9(3) VALUE IS SPACES.

01 NO-EMP-GLARE.
02 NO-EMP-LAST-GLARE PIC 9(10).
02 NO-EMP-FIRST-GLARE PIC 9(10).
02 FILLER PIC 9(33).

01 COPY IBM DB-STATISTICS.
01 COPY IBM DB-STAT-EXTENDED.

PROCEDURE SECTION.
ADDD-INITIALIZATION SECTION.
  
```

The left pane shows the project structure under 'CA DBMS Demo', including files like 'ACCTSTAT.jcl'. The right pane shows the 'Remote Systems' list with details for 'CA CA 32' and 'renewed F4450com.ibm.zos.jcl'.



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CA Development Environment for z Systems (enhanced by IBM® Developer for z Systems™)

File Edit Navigate Search Project Run CA Mainframe Application Tuner CA File Master Plus CA Endevor SCM Window Help

z/OS Projects CA 32-CA 32 Property Group CA 32 Property Group

CA 32 Property Group

Runtime Environments

Procedures and Steps

Local Compiler Options

Local Preprocessor

JCL Substitution

Editor Configurations

Procedures and step table

Procedure No.	Step Name	Status
ELAVFCOP		Disabled
ELAVFCOT		Disabled
IDMSIMLC		Enabled
	DMCL	
	COBOL	

Step options

Procedure name:

Step name:

Info Categories COBOL Link JCL Run PL/I Assembler

Setting Started Remote Error List z/OS File System Property Group Snippets Remote System Data Window Data Source Explorer

Subsystem JES

Resource	Parent filter	Parent filter	Number of L...	Connection...
Retrieved Jobs	CN-CA 32-C...	Not applica...	1	Yes
My Jobs	newm02-F1...	Not applica...	1	No
Active Jobs	newm02-F1...	Not applica...	1	No

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CA Development Environment for z Systems (enhanced by IBM® Developer for z Systems™)

File Edit Navigate Search Project Run CA Mainframe Application Tuner CA File Master Plus CA Endevor SCM Window Help

z/OS Projects CA 32-CA 32 Property Group CA 32 Property Group

CA 32 Property Group

Runtime Environments

Procedures and Steps

Local Compiler Options

Local Preprocessor

JCL Substitution

Editor Configurations

Procedures and step table

Procedure No.	Step Name	Status
ELAVFPLP		Disabled
ELAVFPLT		Disabled
IDMSGMLP		Enabled
	DMCL	
	PLI	

Step options

Procedure name:

Step name:

Info Categories COBOL Link JCL Run PL/I Assembler

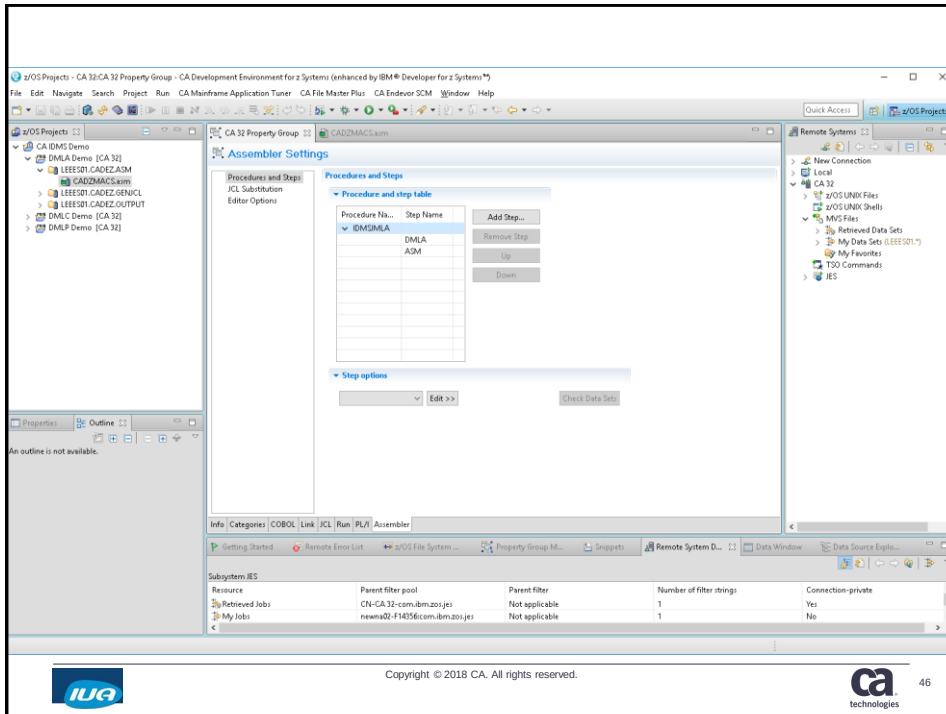
Setting Started Remote Error List z/OS File System Property Group M... Snippets Remote System D... Data Window Data Source Explorer

Subsystem JES

Resource	Parent filter pool	Parent filter	Number of filter strings	Connection-private
Retrieved Jobs	CN-CA 32-com.ibm.zos.jes	Not applicable	1	Yes
My Jobs	newm02-F14356com.ibm.zos.jes	Not applicable	1	No

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User Macro File

- Macro definitions for the HLAsm parser (RO99485)
- For Assembler programs only
- Release 19.0, member "IDMSUMAC"

User Macro File - Benefits

- Editor recognizes IDMS DML Assembler Macros
- Content assist
- Syntax checking



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IDMSUMAC – XML User Macro File

Dataset: yourprefix.CAGJSRC(IDMSUMAC)

```
<?xml version="1.0" encoding="UTF-8"?>
<hlasmDat version="1.0" xmlns="http://www.ibm.com/xmlns/hlasmDat"
  xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation:
    <macroInstruction>
      <name>#ABEND</name>
      <override>ADD</override>
      <macroParameters>
        <unspecifiedParameters>false</unspecifiedParameters>
        <keywordParameter>
          <name>ABCODE</name>
          <required>true</required>
          <ID>0</ID>
          <repeatNumber>1</repeatNumber>
          <isBracketList>false</isBracketList>
          <keywordValues>
            <anyValue>true</anyValue>
          </keywordValues>
        </keywordParameter>
        <keywordParameter>
          <name>DUMP</name>
          <required>false</required>
          <ID>1</ID>
          <repeatNumber>1</repeatNumber>
          <isBracketList>false</isBracketList>
          <keywordValues>
            <anyValue>true</anyValue>
          </keywordValues>
        </keywordParameter>
      </macroParameters>
    </macroInstruction>
```



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z/OS Projects - RemoteSystemsTempFiles\FttRemoteTempFiles\CA 32\LEES01\LEES01.CADEZASM\CADZMACS.asm - CA Development Environment for z Systems

File Edit Navigate Search Project Run CA Mainframe Application Tuner CA File Master Plus CA Endeavor SCM Window Help

Quick Access z/OS Projects Database Development CA Endeavor SCM

z/OS Projects CA 32 Property Group CADZMACS.asm

CA IDMS Demo
 DMLA Demo [CA 32]
 LEES01.CADEZASM
 CADZMACS.asm
 IDMSIMLAjcl
 LEES01.CADEZ.GENICL
 LEES01.CADEZ.OUTPUT
 DMLC Demo [CA 32]
 DMLP Demo [CA 32]

Properties Outline
 Property Value
 Attribute
 BLKSIZE 32720
 DATA CL **None**
 DSNTYPE DATA_LIBRARY
 DSORG PO
 EXTENTS 1
 LRECL 80
 MANAGE **None**
 Num of c
 PRIMARY 1

```

*****
***** ASM MEMBER TO TEST THE CA IDMS USER MACRO FILE *****
*****
#ACCEPT FROM=PAGEINFO,RCB=DEPARTMENT
#ACCEPT RCB=CHECKALL,CORAREA=CHECKIT
#ACCEPT STAT=DBSTATS
#ACCEPT TYP=USERID,FIELD=USERSL2
#ACCEPT TYP=USERID,FIELD=(R2),RGVS=(R2-R13)

#ATTACH TREC=MENU3,PLIST=WPLIST,PRI=150,ECB=(3),COND=ALL,
      ERR=EMENERR
#BIND FROM=(R8),CORAREA=DBPASS
#BIND RCB=EMPLOYEE,IOAREA=EMPLOYE
#BIND SUBC=EMPSS01,SCB=EMPCTRL,PGMNAME=EMPUPD
#BIND TASK,MODE=NAME
#BIND NOB=NAME,TASK
#CHAP PRI=1,ACTION=SUB
#ABEND AB=1,STAT=
#BIND TASK
#COMMIT ALL
#COMMIT ALL=NO
#COMMIT T,T,RGVS=
#COMMIT TSV=T
  
```

Name CA 32 Description CA 32 Property Group Last Edit Apr 27, 2018, 4:07:13 PM

z Systems LPEX Editor

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z/OS Projects - RemoteSystemsTempFiles\FttRemoteTempFiles\CA 32\LEES01\LEES01.CADEZASM\CADZMACS.asm - CA Development Environment for z Systems (enhanced by IBM® Developer for z Systems™)

File Edit Navigate Search Project Run CA Mainframe Application Tuner CA File Master Plus CA Endeavor SCM Window Help

Quick Access z/OS Projects

z/OS Projects CA 32 Property Group CADZMACS.asm

CA IDMS Demo
 DMLA Demo [CA 32]
 LEES01.CADEZASM
 CADZMACS.asm
 IDMSIMLAjcl
 LEES01.CADEZ.GENICL
 LEES01.CADEZ.OUTPUT
 DMLC Demo [CA 32]
 DMLP Demo [CA 32]

Properties Outline
 Property Value
 Attribute
 BLKSIZE 32720
 DATA CL **None**
 DSNTYPE DATA_LIBRARY
 DSORG PO
 EXTENTS 1
 LRECL 80
 MANAGE **None**
 Num of c
 PRIMARY 1

```

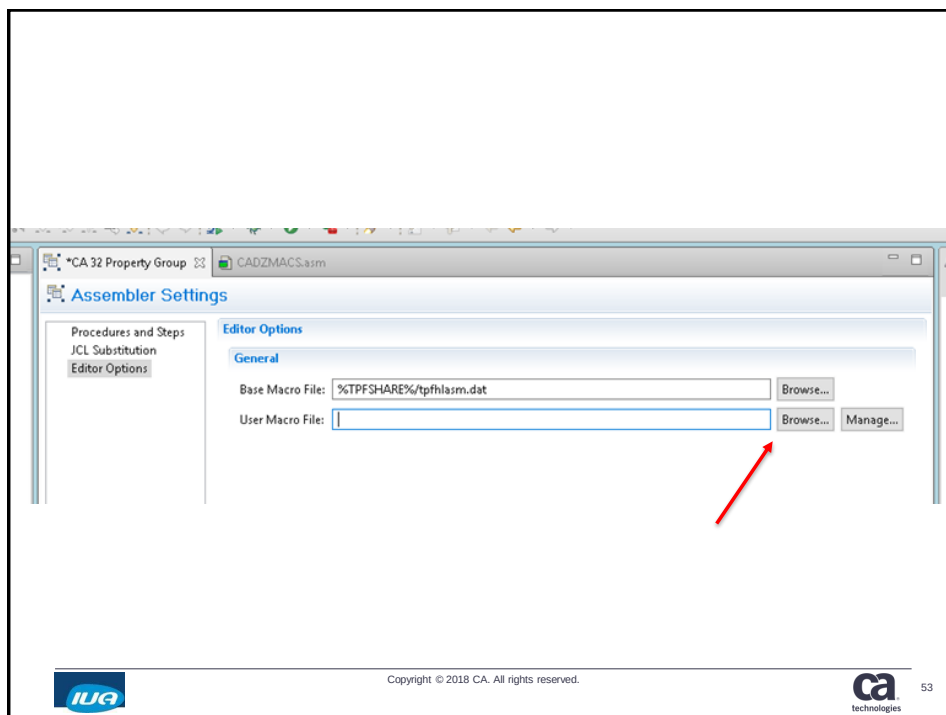
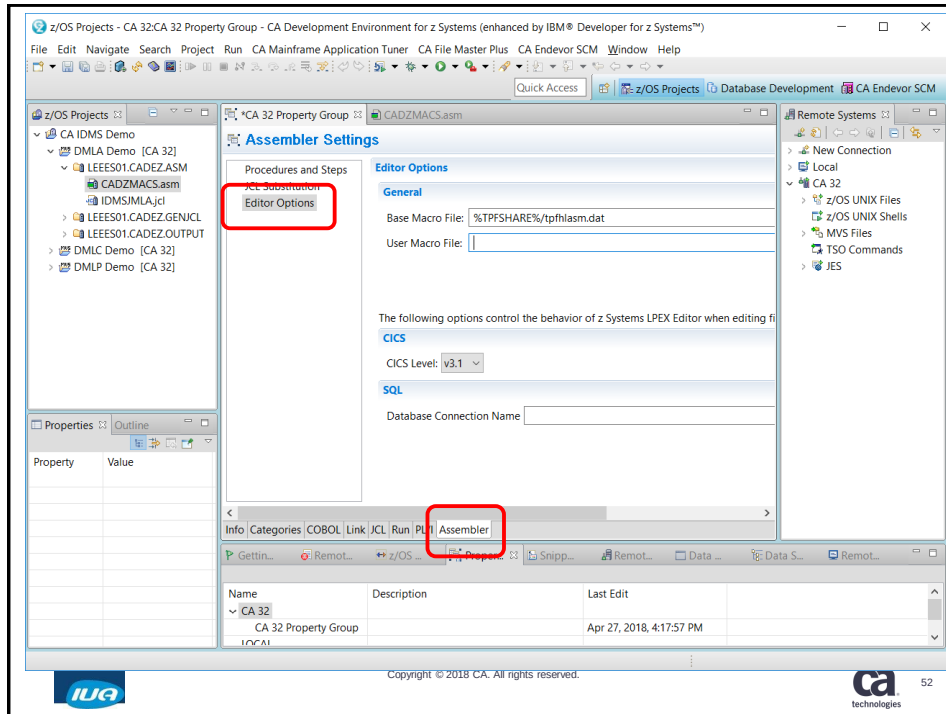
*****
***** ASM MEMBER TO TEST THE CA IDMS USER MACRO FILE *****
*****
#ACCEPT FROM=PAGEINFO,RCB=DEPARTMENT
#ACCEPT STAT=DBSTATS
#ACCEPT TYP=USERID,FIELD=USERSL2
#ACCEPT TYP=USERID,FIELD=(R2),RGVS=(R2-R13)

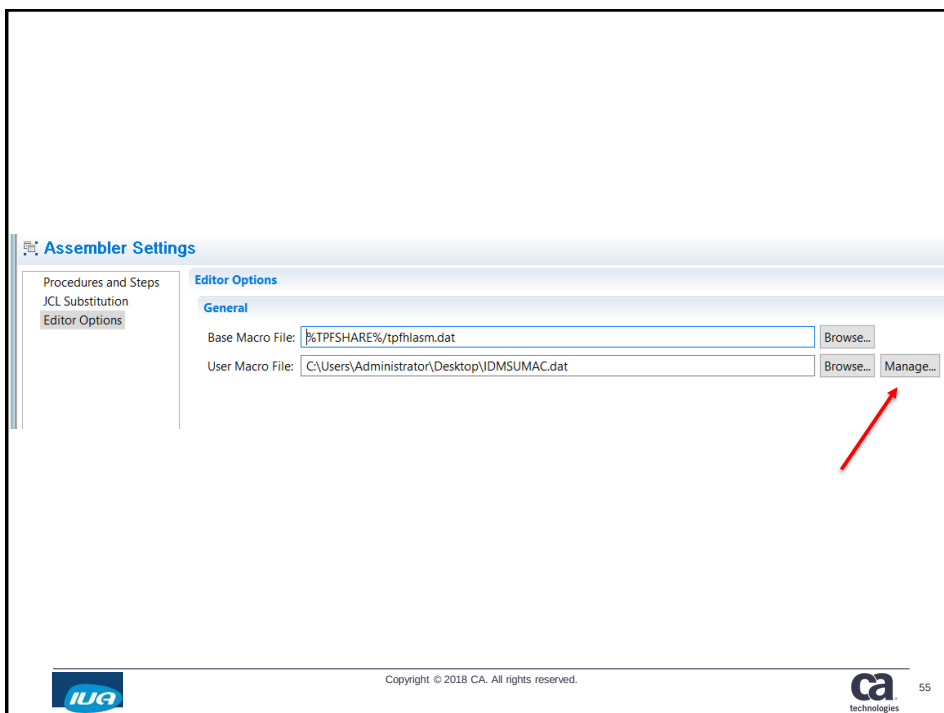
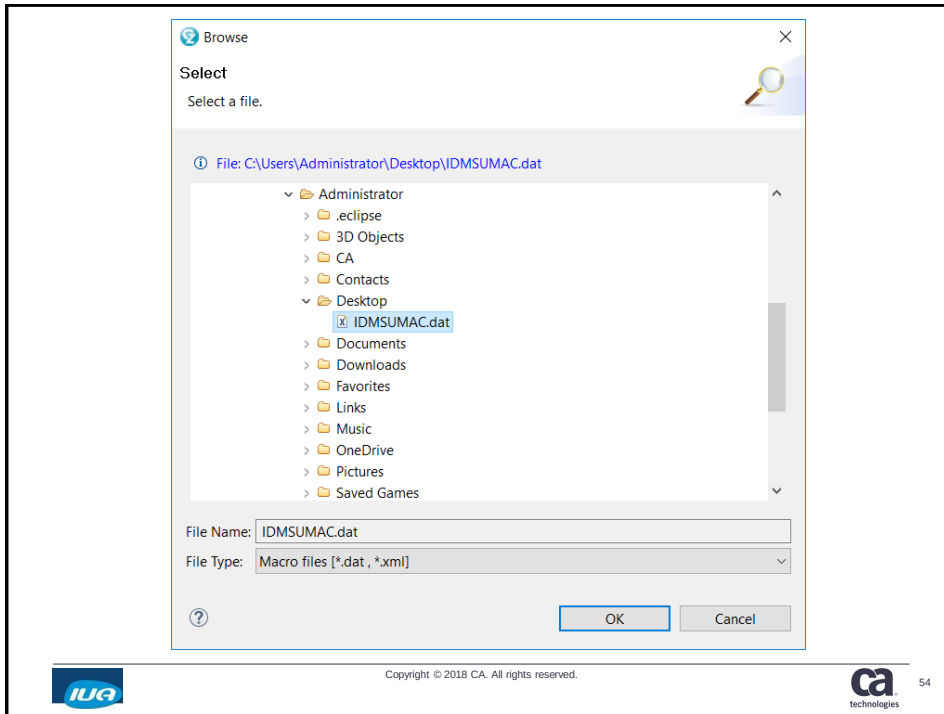
#ATTACH TREC=MENU3,PLIST=WPLIST,PRI=150,ECB=(3),COND=ALL,
      ERR=EMENERR
#BIND FROM=(R8),CORAREA=DBPASS
#BIND RCB=EMPLOYEE,IOAREA=EMPLOYE
#BIND SUBC=EMPSS01,SCB=EMPCTRL,PGMNAME=EMPUPD
#BIND TASK,MODE=NAME,TASK
#CHAP PRI=1,ACTION=SUB
#ABEND AB=1,STAT=
#BIND TASK
#COMMIT ALL
#COMMIT ALL=NO
#COMMIT T,T,RGVS=
#COMMIT TSV=T
#AFFINTY BEL ASE,RGVS=(R2-R8)
#AFFINTY SET SCAN=MAINTASK,RGVS=(R2-R8)
#AFFINTY SET SCATYP=PRS,
#AFFINTY BEL ASE,SCATYP=PRS,
#AFFINTY SET,SCATYP=PRS,TEST=NO,
#AFFINTY SET SCAN=MAINTASK,RGVS=(R2-R8),TEST=NO
COPY #AVERB
#BCLOSE (R8) EDCOR=BCLOSESP,RGVS=(R2-R10),STAT=NO
#BCLOSE (R1) STAT=NO,
#BCLOSE (R2) EDCOR=PLG800,RGVS=(R2-R11),PRZ=NO,
  
```

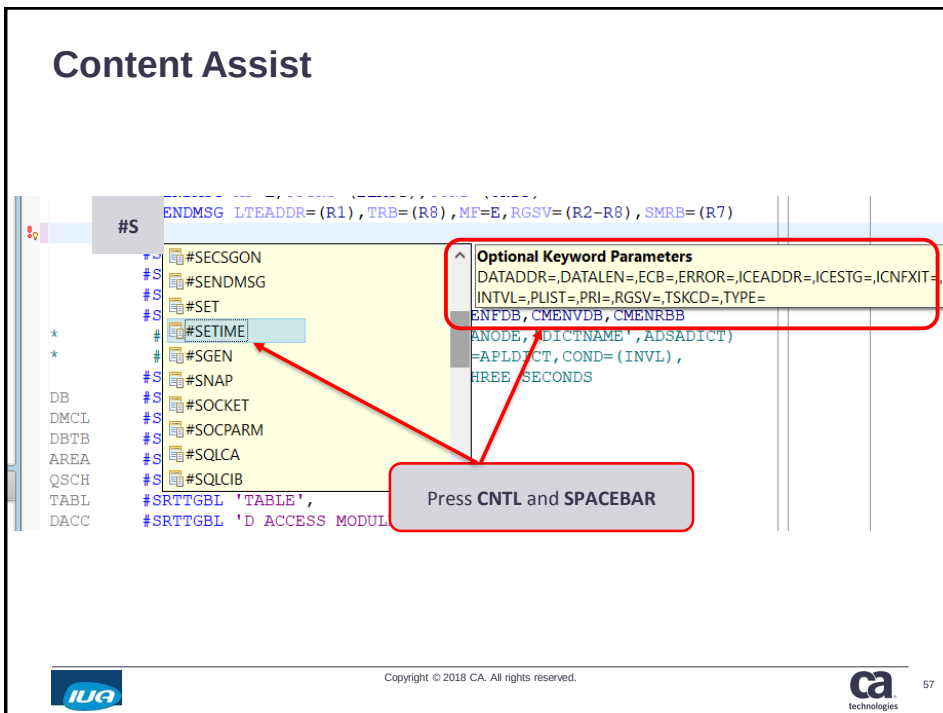
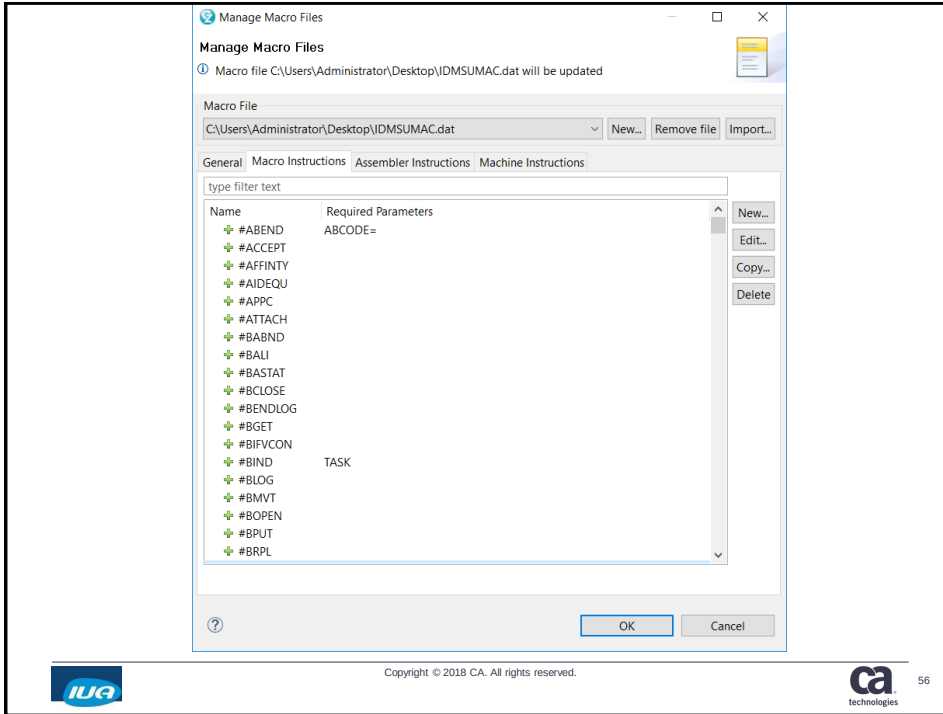
Name CA 32 Description CA 32 Property Group Last Edit Apr 27, 2018, 4:07:13 PM

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Editing and Compiling CA IDMS Programs

- Property Groups
 - REXX Execs
 - JCL Procedures
 - User Macro File
- Go to DOCOPS!
 - Administrating>Integration with CA Development Environment for z Systems

<https://docops.ca.com/ca-idms/19/en/administrating/integration-with-ca-development-environment-for-z-systems>



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Explore CA IDMS Database



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Explore CA IDMS Databases

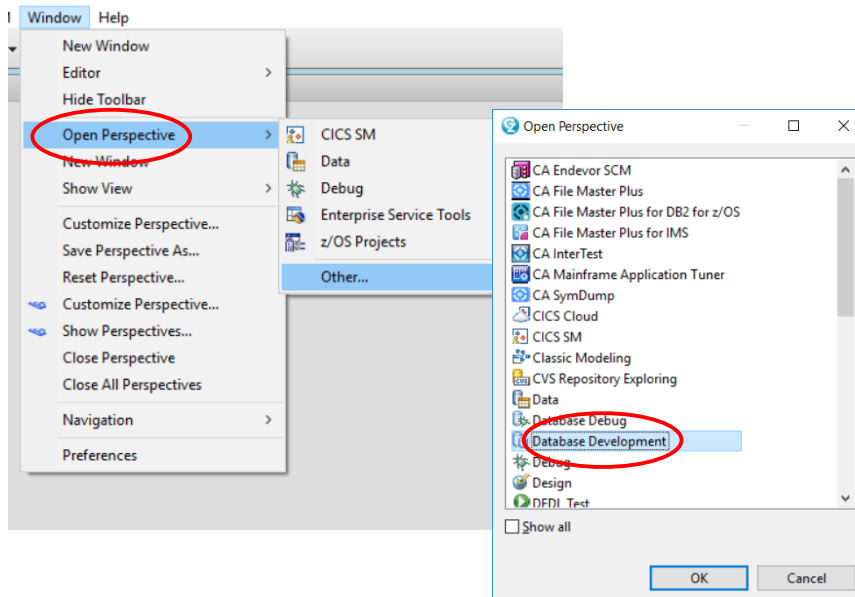
- Database Development Perspective
- Data Source Explorer
- Discover and query Databases
 - Uses CA IDMS JDBC Driver
 - Access SQL & Network defined databases
 - View all your Catalogs, Dictionaries, Schemas and Tables



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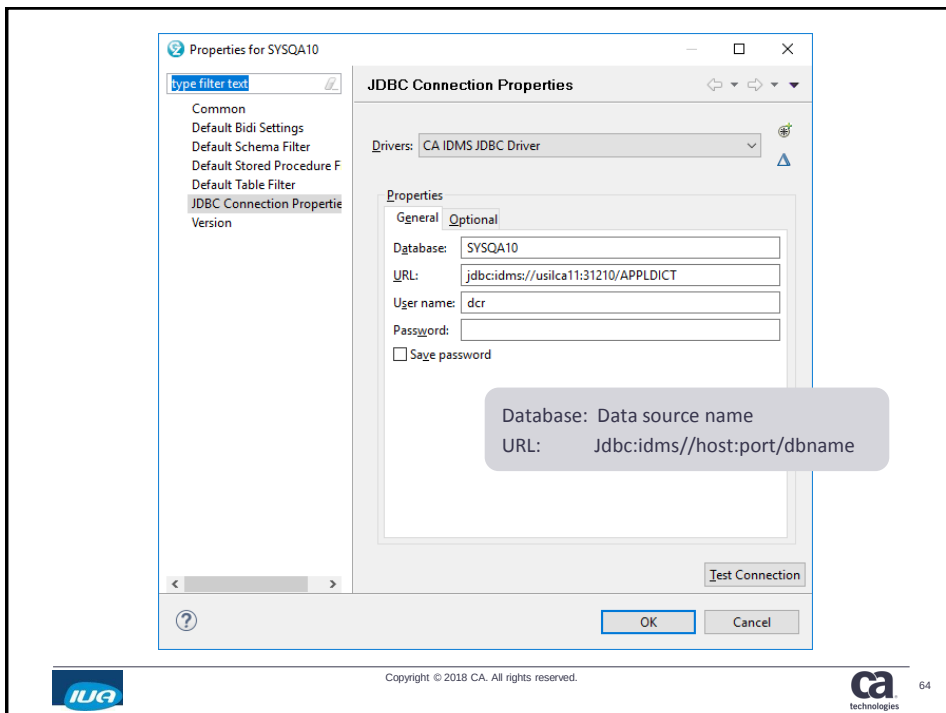
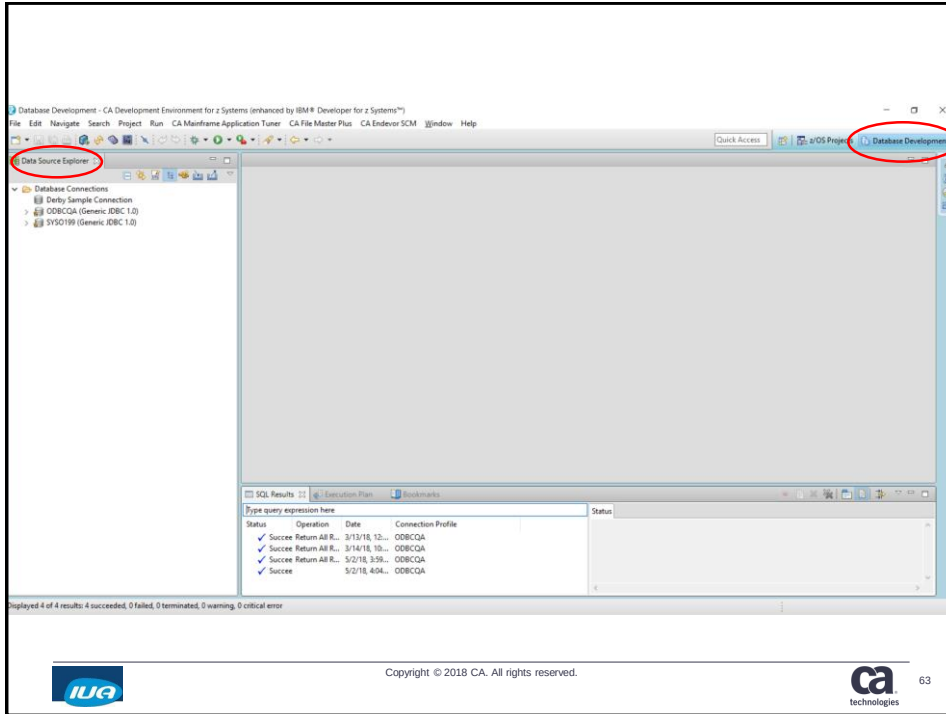
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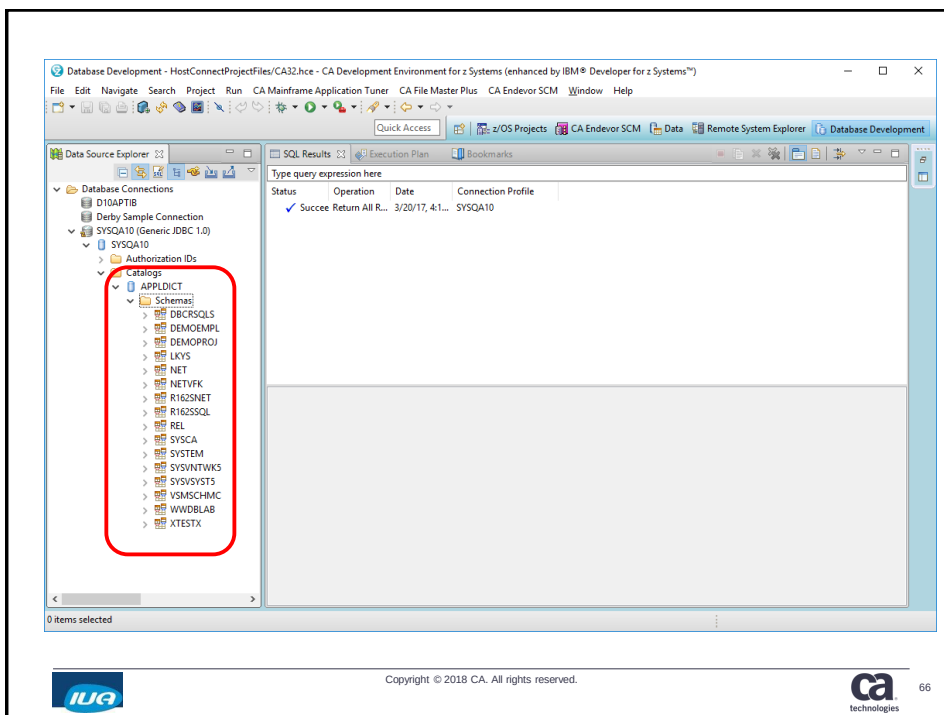
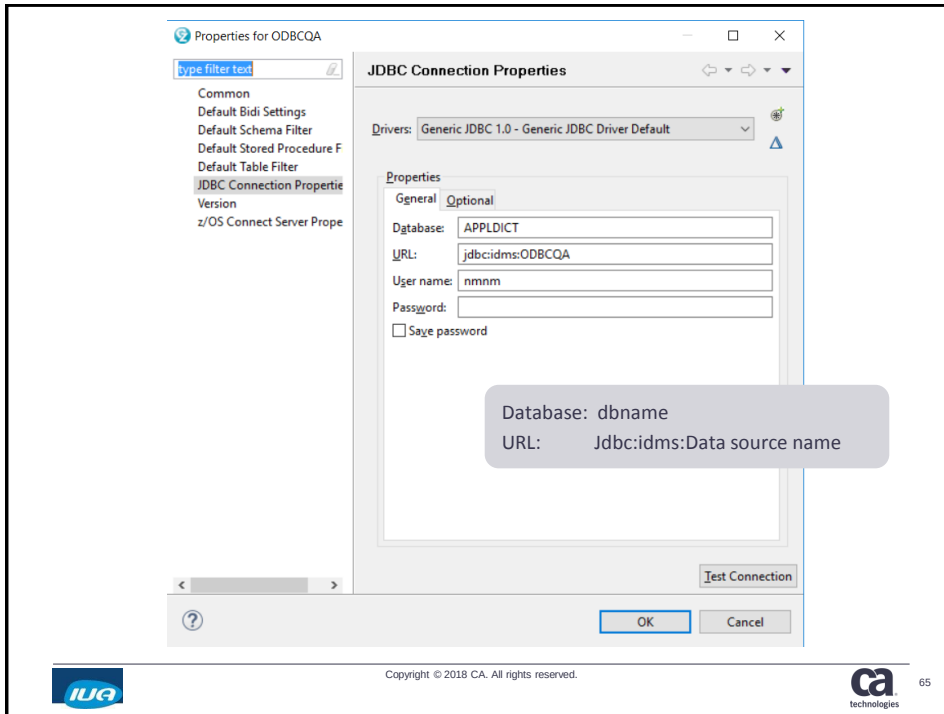


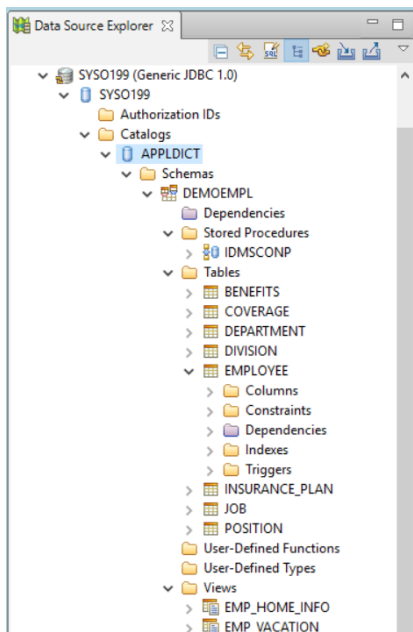
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Data Source Explorer

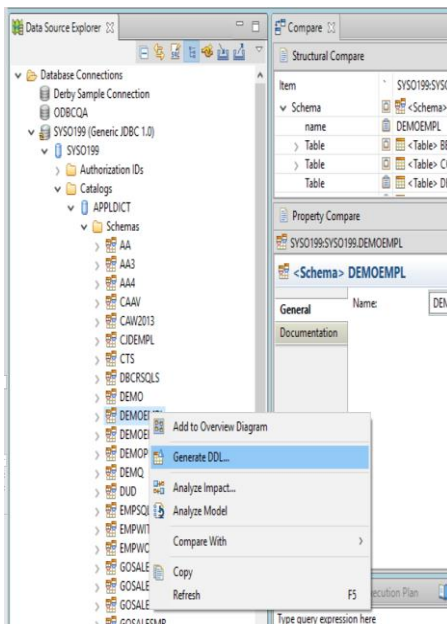
- APPLDICT
 - Schemas
 - (Expand) DEMOEMPL
 - Dependencies
 - Stored Procedures
 - Tables
 - User-Defined Functions
 - User-Defined Types
 - Views



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Data Source Explorer

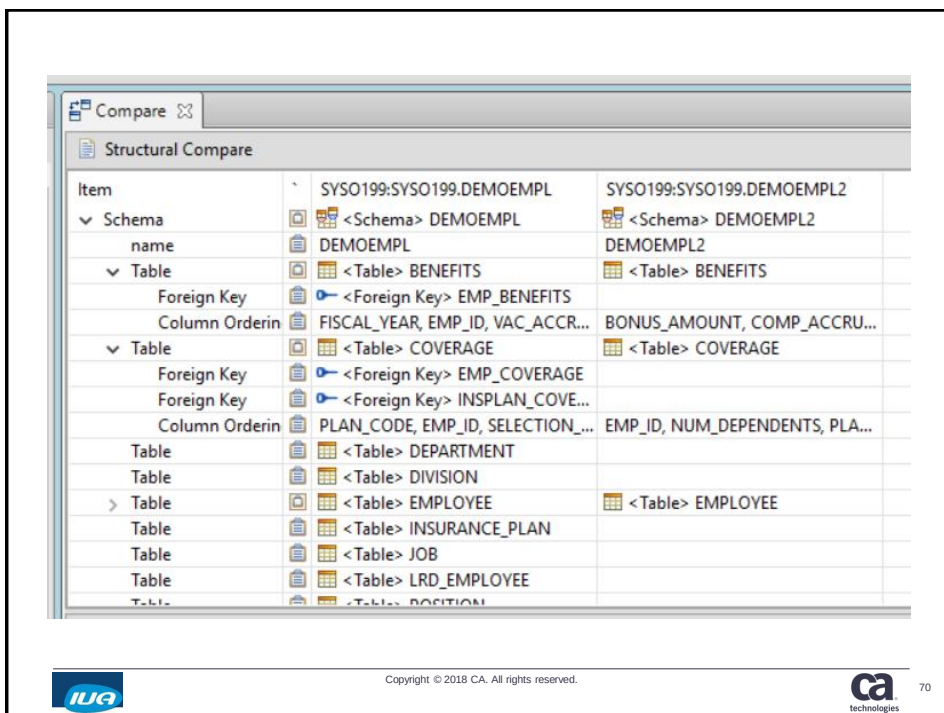
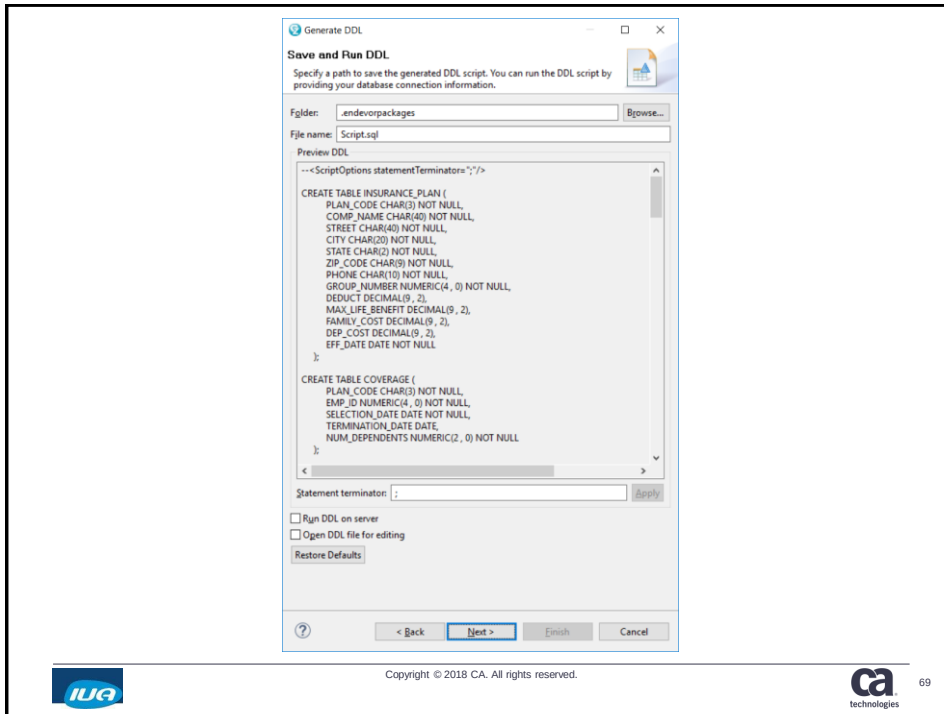
- Generate DDL
- Compare to another

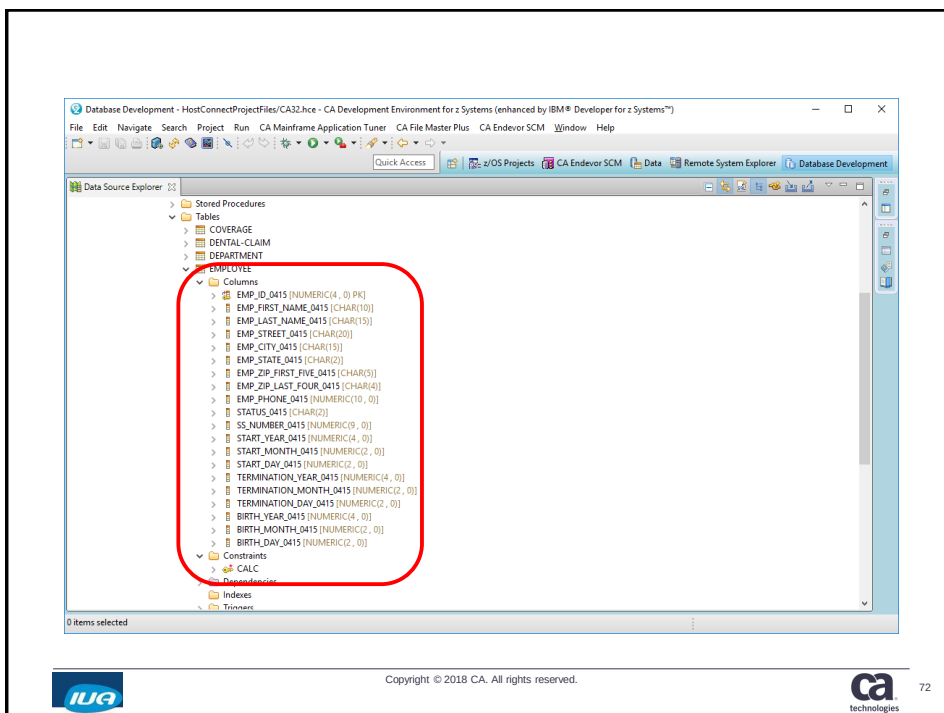
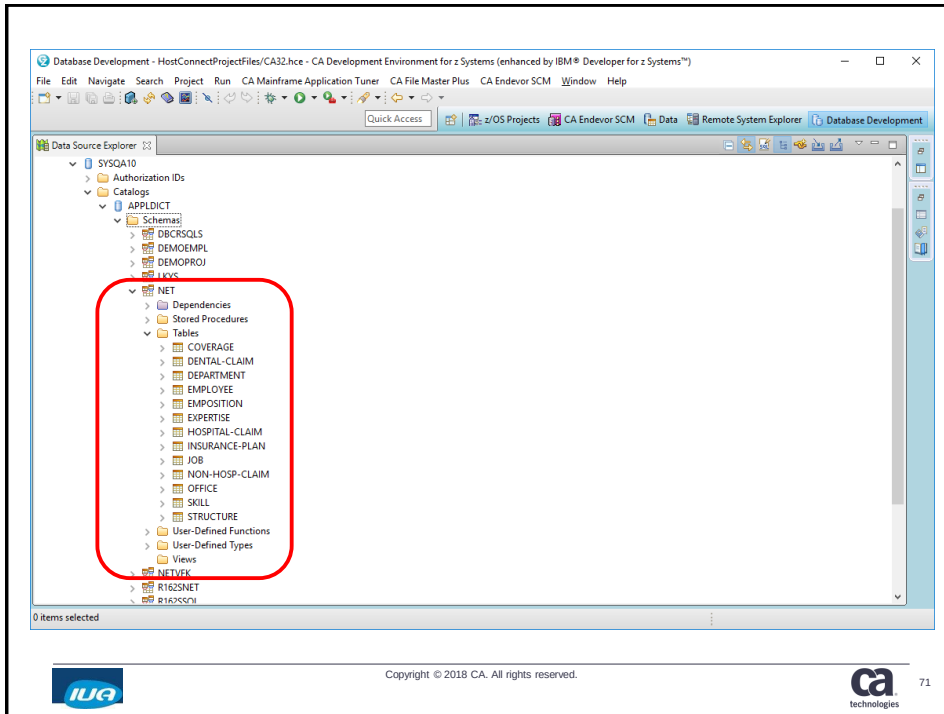


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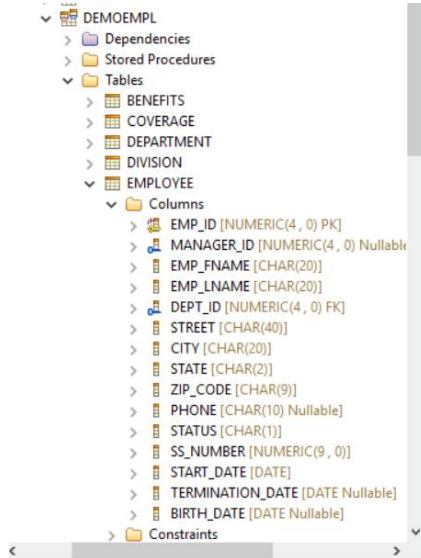


68

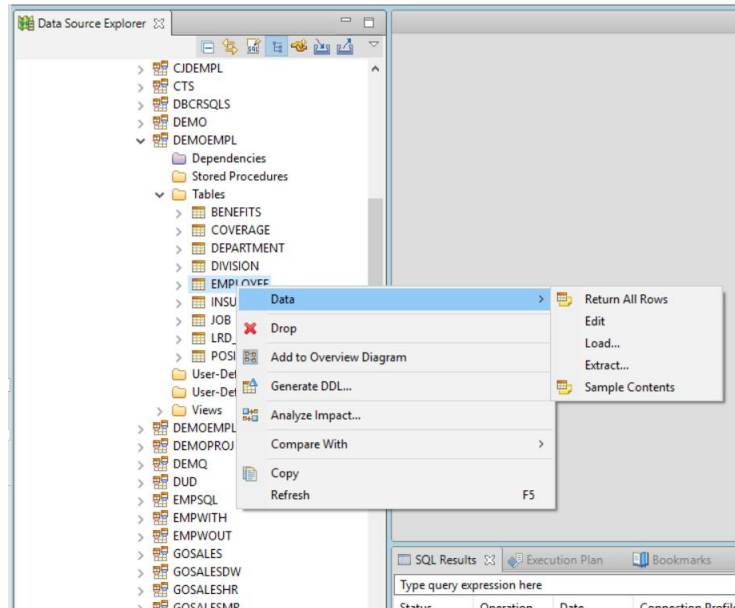




Data Source Explorer



- Table
 - Columns
 - Constraints
 - Dependencies
 - Indexes
 - Triggers



The screenshot displays the CA Development Environment for z Systems interface. The 'SQL Results' window shows the execution of a query: `SELECT * FROM 'NET','EMPLOYEE'`. The results are displayed in a table with columns: EMP_ID_0415, EMP_FIRST_NAME_0415, EMP_LAST_NAME_0415, EMP_STREET_0415, EMP_CITY_0415, EMP_STATE_0415, and EMP_ZIP_FIRST_FI. The table contains 19 rows of employee data.

EMP_ID_0415	EMP_FIRST_NAME_0415	EMP_LAST_NAME_0415	EMP_STREET_0415	EMP_CITY_0415	EMP_STATE_0415	EMP_ZIP_FIRST_FI
1	23	KATHERINE	O'HEARN	12 EAST SPEN S...	NATICK	MA 02364
2	472	ROBBY	WILDER	4567 E. GROWT...	SOUTHBORO ...	MA 03145
3	301	BURT	LANCHESTER	45 PINKERTON A...	WALTHAM	MA 01476
4	27	VLADIMIR	HEAROWITZ	19 TERRACE TER...	TAUNTON	MA 02678
5	471	THEMIS	PAPAZELUS	234 TRANSWOR...	NORTHBORO...	MA 03256
6	7	MONTE	BANK	45 EAST GROVE ...	HANIBAL	MA 02415
7	334	CAROLYN	CROW	891 SUMMER ST...	WESTWOOD ...	MA 02090
8	127	CAROL	MCDUGALL	19 URTOP DR	WELLESLEY	MA 01569
9	19	JULIE	JENSEN	15 THINGER AVE...	SAUGUS	MA 02276
10	366	ALAN	DONOVAN	6781 CORNWAL...	MELROSE	MA 02176
11	476	BETSY	ZEDI	34 VALE AVE	SOUTHBORO ...	MA 03145
12	74	SANDY	KRAAMER	56 NASTY WAY ...	WESTWOOD ...	MA 02090
13	91	MADLINE	ORGRATZI	67 RAINBOW DR...	KENDON	MA 06182
14	466	ROY	ANDALE	44 TRIGGER RD ...	FRAMINGHAM...	MA 03461
15	67	MARIANNE	KIMBALL	561 LEXINGTON ...	LITTLETON	MA 01239
16	106	DORIS	KING	716 MORRIS ST ...	MELROSE	MA 02176
17	48	NANCY	TERNER	14 TYPO TERR ...	READING	MA 02317
18	371	BETH	CLOUD	3456 PINKY LN ...	NATICK	MA 02178
19	32	JANE	FERNDAL	60 FOREST AVE ...	NEWTON	MA 02576

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Summary

- Developers are able to maintain IDMS applications on a modern platform
- Enhanced Text editing and integrated pre-compilers for IDMS programs
- Explore CA IDMS Databases

Session Summary

- Portfolio simplification
- Continuous delivery allows timely
- Your voice is being heard – submit those ideas through the IUA community site



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Questions & Answers

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Comments: _____				
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This session would be useful as a reference				
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Comments: _____				
General Comments: _____				

