



# Database Management for Db2 for z/OS 20.0 (Db2 Tools) Customer Community Update

**Team Product Owners**

December 13<sup>th</sup>, 2021

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# Agenda

## Sysview for Db2

- Enhancements around IFCID 376
  - Dynamic SQL text during unload
  - new archive tables
- Extended Profile Monitoring Statistics Support for IFCID 402

## MTC DBM

- Multiple objects selection
- Hyperlinks
- Enhanced Breadcrumbs

## RC/Query

- Advanced Triggers

# Please Provide Feedback...





# Extending IFCID 376 (SQL incompatibilities data) with dynamic SQL text during unload and introducing new archive tables for IFCID 376

**Rabah Beggar**

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# Overview.

Customers would like to unload IFCID 376(Incompatible functions Executed) data including dynamic SQL text to an archive table.

This will save users time when investigating SQL incompatibilities by leveraging the new archive tables to quickly identify which SQLs are incompatible when preparing for new function levels or new Db2 version.

So we:

- Extended IFCID 376 with SQL text from SYSVIEW for Db2 dynamic SQL text database during unload process.
- Created a new archive tables for SQL Incompatibilities data (IFCID 376)

# What is new ,

## Data collector changes:

- New IQL variable is introduced: IQL-DEFINE=(**SQL-INCOMPAT-TEXT**=YES/NO) to enable collection of SQL text from the cache into the SYSVIEW for Db2 Dynamic SQL Text database whenever IFCID 376 is captured
- **IQLSLCNT** IQL request that controls what events trigger SQL text collection, was updated to include a section for IFCID 376 processing; setting the variable to YES activates it

## Unload utility (IDB2UIFI REQ=UNLDHIST) has been enhanced:

- Unload utility now looks for **HSTSQLDB** DDNAME to access the database
- Offloaded IFCID 376 records will include SQL text, if it is available in the Dynamic SQL Text database **and** when the SQL text is not present in original trace record
- If HSTSQLDB is not available a new INFO message will be issued in the unload job

```
DBG86009I DT31 05:26:11 SQL text database is not detected, no DDNAME HSTSQLDB found
```



# Extending IFCID 376 with SQL text

Scenario 1: History files are not given in unload job; Data Collector is running with HSTSQLDB.

```
...+....10...+....20...+....30...+....40...+....50...+....60...+....70...+....80...+....90...+....100...
DBG39049I 12:26:00 INITIALIZING CA SYSVIEW FOR DB2 20.0
DBG73100I 12:26:00 INITIALIZING LDS FILE UTILITY PROGRAM
DBG73102I 12:26:00 INPUT PARAMETERS: REQ=UNLDHIST,DBSUB=DT31,DBLOC=IDB4728D,,REMPOS=YES,TESTV=Y999
DBG03177I DT31 12:26:00 INVOKING PARMLIB READER USING "ED=DTTDUMMY,SUFFIX=00"
DBG73111I DT31 12:26:02 FILE HISTSTAT ALLOCATED TO TSPROD.PUBLIC.IDB4728D.DT31.HSTSTATS
DBG73111I DT31 12:26:02 FILE HISTACCT ALLOCATED TO TSPROD.PUBLIC.IDB4728D.DT31.HSTACCTG
DBG73111I DT31 12:26:02 FILE HSTSQLDB ALLOCATED TO TSPROD.PUBLIC.IDB4728D.DT31.HSTSQLDB
DBG86008I DT31 12:26:03 SQL text database initialization completed
DBG73101I DT31 12:26:03 LDS UTILITY PROGRAM INITIALIZATION COMPLETE
DBG73108I DT31 12:26:03 UNLOADING HISTORY DATA TO SMF FLAT FILE
DBG73109I DT31 12:26:05 DATA COLLECTOR POSTED TO REMEMBER POSITION
DBG73112I DT31 12:26:05      590 RECORDS WRITTEN FROM ACCOUNTING FILE
DBG73115I DT31 12:26:05     1092 RECORDS WRITTEN FROM STATISTICS FILE
DBG76022I DT31 12:26:05      128 BLOCKS  READ FROM INPUT FILE HISTACCT.
DBG76021I DT31 12:26:05      590 RECORDS READ FROM INPUT FILE HISTACCT.
DBG76028I DT31 12:26:05      0 RECORDS FAILED DECOMPRESSION FOR FILE HISTACCT
DBG76029I DT31 12:26:05      2 MB OF EXPANDED DATA PROCESSED FOR FILE HISTACCT
DBG76030I DT31 12:26:05      1 MB COMPRESSED DATA READ FROM FILE HISTACCT
DBG76032I DT31 12:26:05 000:00:00.000300 DECOMPRESSION TCB CPU USED FOR FILE HISTACCT
DBG76022I DT31 12:26:05      512 BLOCKS  READ FROM INPUT FILE HISTSTAT.
DBG76021I DT31 12:26:05     1092 RECORDS READ FROM INPUT FILE HISTSTAT.
DBG76028I DT31 12:26:05      0 RECORDS FAILED DECOMPRESSION FOR FILE HISTSTAT
DBG76029I DT31 12:26:05      5 MB OF EXPANDED DATA PROCESSED FOR FILE HISTSTAT
DBG76030I DT31 12:26:05      2 MB COMPRESSED DATA READ FROM FILE HISTSTAT
DBG76032I DT31 12:26:05 000:00:00.000533 DECOMPRESSION TCB CPU USED FOR FILE HISTSTAT
DBG76005I DT31 12:26:05      1682 RECORDS WRITTEN ONTO OUTPUT FILE SMFOUT .
DBG73107I DT31 12:26:05 LDS FILE UTILITY PROGRAM COMPLETED RC=      0
DBG98003I DT31 12:26:05  ROUTINES USED      6334264 BYTES OF GETMAIN STORAGE
***** End of Data *****
```

# What is new , --cont.

- IQL syntax has been extended with format "**OF=Hnn**" to output binary data into its hexadecimal character representation in EBCDIC encoding. This output format is intended for loading data into Db2 CHAR columns
- Archive tables updates:
  - **APPL\_PGM\_DETAIL** (application program details) now includes a column **PKG\_TOKEN\_HEX** to contain CONTOKEN value in hex
  - **APPL\_PGM\_DAILY** (application program daily summary) includes the same **PKG\_TOKEN\_HEX** column
  - **SUBSYS\_SQL\_DETAIL\_STATIC** (static SQL details) now includes again similar column **CONSIST\_TOKEN\_HEX** and new **PACKAGE** column
- IQL syntax examples:
  - `TOKEN DS CL8` stores value `0x12345678`
  - `TOKEN (OF=H16)` produces value `'F1F2F3F4F5F6F7F8'`

# What is new , --cont.

- Two new archive tables are introduced to contain execution details of SQL statements that are potentially incompatible with the current version of Db2:
  - APPL\_SQL\_INCOMPAT\_DETAIL (application incompatible SQL statements)
  - APPL\_SQL\_INCOMPAT\_PARAMS (application incompatible SQL parameters)
- Tables are based on IFCID 376 APPL-SQL-INCOMPAT records.
- Post-install process was updated to include new tables:

```
IDBSPCC2 ---- CA SYSVIEW for DB2 Archive database configuration Page 4 of 5 ---
OPTION ==>
Select which archive table groups you are interested in:
                Create summary tables  Keep detail/summary records(in days)

- Subsystem
  Y statistics                Y                30                365
  Y parameters                Y                30
  Y storage usage              Y                30
Y Application accounting      Y                7                30
N IDB2 accounting details      Y                7
N SQL statement statistics      Y                7
Y Audit tables                 Y                30
N DB2 accelerator supplementary tables
Y Aggregated accounting by connection Y                30                365
N Application SQL incompatibilities 30
```

# Please Provide Feedback...

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# Extended Profile Monitoring Statistics Support for IFCID 402

**Rabah Beggar**

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# Overview.

SYSVIEW for Db2 now collects the (402) PROFILE EXCEPTIONS records at a fixed time interval that IBM introduced with the new DB2 V12 QW0402\* metrics.

These metrics helps users monitor workload against thresholds defined in the system profiles. Capturing the delta between two intervals allow users to track profile exceptions and warnings that are triggered in specific intervals.

Enhanced profile monitoring statistics reports in SYSVIEW for Db2 to collect the (402) PROFILE EXCEPTIONS records at a fixed time interval allowing users to detect anomalies and measure workload against the thresholds defined in system profiles.

# Overview.

This enhancement covered recent changes to IFCID402 processing introduced by DB2:

1. Introduced support for new metrics, and updated the online report.
2. Introduced delta processing for the record and a new interval-based IQL exception IDSXC402.
3. Introduced a way to retrieve the record representing the profile usage statistics on demand. The existing reports were updated to be interval-based.
4. Introduced support for collecting IFCID402 to the STATS history dataset. Together with this support two new online history reports HSUPROF and HSTPROF for summary and trace are introduced.
5. Two new batch reports BTRPROFS and BTRPROFD were introduced.

# New metrics.

Several new metrics are introduced:

**THREAD-MONITORED-BY-PROF** - Indicates the current value of the number of threads monitored by the profile.

**THREAD-SUSPEND-BY-PROF** - Indicates the current number of threads suspended by the profile.

**HWM-THREAD-COUNTER** - Indicates the high water mark of the number of threads since DDF was started

**CONNECT-MONITORED-BY-PROF** - Indicates the current value of the number of connections monitored by the profile

**CONNECT-MONITORED-BY-HWM** - Indicates the high water mark of the number of connections since DDF was started

**FIRST-TOKEN-VAR** - Indicates the first token value.

**FIRST-TOKEN-LEN** - Indicates the length of the first token value.

**FIRST-TOKEN-LONG** - Indicates the first token value.

**SECOND-TOKEN-VAR** - Indicates the second token value.

**SECOND-TOKEN-LEN** - Indicates the length of the second token value.

**SECOND-TOKEN-LONG** - Indicates the second token value.



# New metrics - report updates.

R/PROFILES DB2 profile warnings/exceptions - 30 Seco														Item 1/2						
Profile ID	<----- Warnings ----->				<----- Exceptions ----->				Delta				<----- Monitoring ----->							
	Connects	Threads	Idle	Thd	Connects	Threads	Idle	Thd	Que	Thds	Fail	Req	Connects	Max Conn	Threads	Max	Thds	Susp	Thd	
666	0	0	0	0	0	0	0	0	0	0	0	0	38	52	0	20	0			
<div>First Token: ::FFFF:10.175.84.31</div> <div>Second Token:</div>																				
666	0	151	0	0	0	0	0	0	0	0	0	0	201	201	200	200	0			
<div>First Token: ::FFFF:10.74.32.186</div> <div>Second Token:</div>																				

The reports are filtered out with a dynamic WHERE clause, only profiles with any kind of activity are displayed.

# Delta processing.

The records are now DELTAed, meaning that we calculate the difference between consecutive entries for the same profile. The entries are matched based on the profile ID and the new fields Token1 and Token2.

The delta values are used in a new IQL IDSXC402 exception. This exception is triggered in case there were any exceptions or warnings that happened in the last interval.

The exception is based on the profile ID, so even if there are several different for the same profile ID in the report, a single exception will be triggered for all of them.

An existing exception EXCP0402 was updated to filter out profiles without any activity.

# New IQL exception.

1

All

2

Subsystem

3

Application

4

Database

5

Ext/IQL

Type

IN-ALERT

(IN-ALERT, INUSE, TRIPPED)

EXCDISP

External/IQL Exceptions In Alert

Row

1/3

Actions:

H=Help, G="Goto" screen, U=Update current and permanent, T=Temp update, B=Browse

EXT/IQL BASED EXCEPTIONS

INFO

05:06:54-05:06:54

IDSXC402 PROFILE

666

had

151

WARNINGS and

0

EXCEPTIONS in the last interval

R/PROFILES		DB2 profile warnings/exceptions - 30 Seco										Item 1/2								
		Warnings			Exceptions			Delta								Monitoring				
Profile ID		Connects	Threads	Idle Thd	Connects	Threads	Idle Thd	Que	Thds	Fail	Req	Connects	Max Conn	Threads	Max Thds	Susp	Thd			
666		0	0	0	0	0	0	0	0	0		38	52	0	20	0				
	First Token:	::FFFF:10.175.84.31																		
	Second Token:																			
666		0	151	0	0	0	0	0	0	0		201	201	200	200	0				
	First Token:	::FFFF:10.74.32.186																		
	Second Token:																			

# Retrieval on demand.

The records can now be requested on demand. Support for this functionality was introduced by DB2 for z/OS APAR PH12041. This requirement is included in the HOLDDATA for the enhancement.

To avoid DB2 version issues a new data collector system parameter PROFILE-MONITORING was introduced which allows obtaining records on demand. The default value for this parameter is NO, and this value preserves the existing behavior. Turning the parameter ON while the necessary DB2 maintenance is not applied causes several error messages to be written out to DBGPRINT and the online IFCID402 reports to be stopped.

The new behavior introduces an interval-based real-time report.

It also turns on collecting 402 records to the history dataset and starts the online history reports.

This behavior is happening under the covers so there is nothing to show.

# Support for IFCID 402 in STAT history.

Record 402 is now supported for history collection. It will be collected on the same interval as all STATS records in case PROFILE-MONITORING=YES.

Two new online history reports HSTPROF and HSUPROF are introduced to process the records from our history datasets.

The HSTPROF is a trace report which has the same layout as the online report.

The HSUPROF is a summary report that reports the summarized/average/min/max values.

# Support for IFCID 402 in STAT history.

R/HSTPROF Profile Warnings/Exceptions History Item 1/2																
From 11/03/21 05:07:01 To 11/03/21 05:08:00																
<----- Warnings -----> <----- Exceptions -----> <----- Monitoring ----->																
Profile ID	Connects	Threads	Idle Thd	Connects	Threads	Idle Thd	Que	Thds	Fail	Req	Connects	Max Conn	Threads	Max Thds	Susp	Thd
666	0	0	0	0	0	0	0	0	0	0	38	52	0	20	0	
	First Token:	::FFFF:10.175.84.31														
666	Second Token:	0	0	0	0	0	0	0	0	0	201	201	200	200	0	
	First Token:	::FFFF:10.74.32.186														
	Second Token:															

R/HSUPROF Profile Warnings/Exceptions Hist Summary Item 1/2																
From 11/03/21 04:44:00 To 11/03/21 06:21:00																
<----- Total Warnings -----> <----- Total Exceptions -----> <----- Monitoring ----->																
Profile ID	Connects	Threads	Idle Thd	Connects	Threads	Idle Thd	Que	Thds	Fail	Req	Avg Conn	Max Conn	Avg Thds	Max Thds	Avg Susp	
666	0	0	0	0	0	0	0	0	0	0	37.0	52	0.0	20	0.0	
	First Token:	::FFFF:10.175.84.31														
666	Second Token:	0	151	0	0	0	0	0	0	0	154.0	201	153.0	200	0.0	
	First Token:	::FFFF:10.74.32.186														
	Second Token:															

# New batch reports.

Two batch reports are introduced – trace and summary.

The trace report prints out a header for every 402 record found in the input dataset (they cannot be paired based on the time interval since the input can be an SMF dataset instead of the Sysview for DB2 history dataset)

The summary report groups all of the records by profile ID, Token1 and Token2 and prints out the summarized report for them.



# New batch reports.

11/03/21 06:46:12  
REQUEST: BTRPROFD  
FIRST RECORD 11/03/21 04:46:00

PAGE 1  
DB2 SYS: DT31

DB2 PROFILE WARNINGS/EXCEPTIONS TRACE

PROFILE MONITORING RECORD  
EVENT TIME: 11/03/21 05:06:00

SUBSYS: DT31    VER: C1

GROUP : DSNDTGP    LOCATION: DTGPPTIB

Profile ID	<----- Connects	Warnings Threads	Idle Thd	<----- Connects	Threads	Exceptions Idle Thd	Que Thds	Fail	Req	<----- Connects	Max Conn	Monitoring Threads	Max Thds	Susp Thd
666	0	0	0	0	0	0	0	0	0	38	52	0	20	0
	First Token: ::FFFF:10.175.84.31													
	Second Token:													

PROFILE MONITORING RECORD  
EVENT TIME: 11/03/21 05:07:00

SUBSYS: DT31    VER: C1

GROUP : DSNDTGP    LOCATION: DTGPPTIB

Profile ID	<----- Connects	Warnings Threads	Idle Thd	<----- Connects	Threads	Exceptions Idle Thd	Que Thds	Fail	Req	<----- Connects	Max Conn	Monitoring Threads	Max Thds	Susp Thd
666	0	0	0	0	0	0	0	0	0	38	52	0	20	0
	First Token: ::FFFF:10.175.84.31													
	Second Token:													
666	0	151	0	0	0	0	0	0	0	201	201	200	200	0
	First Token: ::FFFF:10.74.32.186													
	Second Token:													

11/03/21 06:46:12  
REQUEST: BTRPROFS  
FIRST RECORD 11/03/21 04:46:00

PAGE 1  
DB2 SYS: DT31  
LAST RECORD 11/03/21 06:46:00

DB2 PROFILE WARNINGS/EXCEPTIONS SUMMARY

SUBSYS: DT31    VER: C1

GROUP : DSNDTGP

LOCATION: DTGPPTIB

Profile ID	<---- Total Connects	Warnings Threads	Idle Thd	<----- Total Connects	Threads	Exceptions Idle Thd	Que Thds	Fail	Req	<----- Avg Conn	Max Conn	Monitoring Avg Thds	Max Thds	Avg Susp
666	0	0	0	0	0	0	0	0	0	36.8	52	0.0	20	0.0
	First Token: ::FFFF:10.175.84.31													
	Second Token:													
666	0	151	0	0	0	0	0	0	0	154.0	201	153.0	200	0.0
	First Token: ::FFFF:10.74.32.186													
	Second Token:													



# Brief summary.

- Changed reports: PROFILES, EXCP0402
- New reports: IDSXC402, HSTPROF, HSUPROF, BTRPROFS, BTRPROFD
- New parameter: PROFILE-MONITORING=YES/NO. By default it's NO preserving the old behavior.
- Specifying YES allows interval-based processing, turns on the 402 collection to STATS history dataset and starts the online history reports.
- Specifying YES can only work if PH12041 is applied to DB2 for z/OS, otherwise the customer should expect error messages.

# Please Provide Feedback...

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# MTC DBM to support multiple objects selection, hyperlinks and enhanced breadcrumbs

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# Overview – problem statement

Customers would like to perform a single action by selecting multiple objects in easy manner in MTC DBM and should be consistent in both Administration and Performance tabs.

Currently,

- Performance tab
  - does not allow selecting multiple rows
  - refreshes the current tab for every action
  - needs 3 clicks to perform an action
- Administration tab
  - does not show Breadcrumbs
  - opens new tab to show the details of table
  - needs 3 clicks to open table detail report

Overall, there are inconsistencies in both Administration and Performance tabs of MTC

# MTC DBM enhancements – Whats new

In order to resolve the inconsistencies, we have enhanced MTC DBM by making sure that both Administration and Performance tabs will have the similar kind of behavior.

This is with regards to both “**Administration and Performance**” tabs:

- Ability to select multiple rows
- Current tab gets refreshed with first selected rows output
- New tabs will be created for all the remaining rows
- Mostly used action can be performed with a single click for one object

[Live Demo](#)

# MTC DBM enhancements – cont.

[illegible]

# MTC DBM enhancements – cont.

SSID: D11A / TABLE: SYSIBM.ADMIN\_TASKS / TB DETAILS

DYNAMIC SQL STATEMENTS (D11A) X

DYNAMIC SQL STATEMENTS (D11A) X

DYNAMIC SQL STATEMENTS (D11A) X

TB DETAIL (D11A) X

TB DETAIL (D11A) X

TB DETAIL (D11A) X

Name	Creator	Type	Database	Tablespace
ADMIN_TASKS	SYSIBM	Regular	DSNADMDR	DSNADMTS

OwnerSYSIBM

Owner Type

Created ByTERJ003

Table TypeT

Created Timestamp2013-05-15 11:30:56.404592

Altered Timestamp2013-05-15 11:30:56.404592

Clone Table Creator

Clone Table Name

Status

Table Status

Data Capture

Link as Parent0

Links as Child0

Table Label

Stats Time2015-02-26 16:00:58.055496

Check RID40404040

Number of Synonyms0

Comment on Table

SPACEF-1.0E0

Version0

Split Rows

Average Row Length-1

Part key Column Number0

AppendN

# Please Provide Feedback...

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# RC/Query to generate DDL for Db2 Advanced Triggers

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# Overview

Currently RC/Query does not support generate DDL for Db2's Advanced triggers (generates DDL for only Basic triggers). Many customers has shown interest in having the capability to generate the DDL for Db2 Advanced triggers.

So, we have enhanced RC/Query

- to generate DDL for both Advanced triggers
- with additional formatting improvements

Now RC/Query generates the DDL for both Basic and Advanced triggers of Db2.

[Live Demo](#)

# RC/Query: DDL for Advanced Triggers

```
EDIT      BATCH.PROCESSOR.INPUT      Columns 00001 00072
Command ==>      Scroll ==> CSR
000006    CREATE OR REPLACE TRIGGER SAMVA02.ADVTRGXY
000007      VERSION V3
000008      AFTER UPDATE
000009      ON QAOFS.QA1TTB02
000010      REFERENCING
000011          OLD_TABLE AS CROT0031
000012          NEW_TABLE AS CRNT0031
000013      FOR EACH STATEMENT
000014      NOT SECURED
000015      DISALLOW DEBUG MODE
000016      ASUTIME NO LIMIT
000017      QUALIFIER SAMVA02
000018      WLM ENVIRONMENT FOR DEBUG MODE DSNWLMG
000019      CURRENT DATA NO
000020      DYNAMICRULES RUN
000021      APPLICATION ENCODING SCHEME EBCDIC
000022      WITHOUT EXPLAIN
000023      WITHOUT IMMEDIATE WRITE
000024      ISOLATION LEVEL CS
000025      OPTHINT ' '
```

# Please Provide Feedback...

## PTFs:

LU03314, LU03315, LU03316, LU03317 and LU0331.

**Srinivas Adupa**

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In Closing...

# When is the next Community Update call?

Our next call will be February 14<sup>th</sup>, 2021

## Did you miss our last call (in September)?

The replay is available [here](#).

# CA Db2 Tools 20.0 Validation Project

<https://validate.broadcom.com/key/DB2Tools200>

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06SYS2026E	CA SYSVIEW® Performance Management Option for DB2 for z/OS - Intermediate - Digital Badge Assessment
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Learning Path

Administrator/Implementer

Course Name	Code	Type	Length
CA Database Management for Db2 YouTube Playlist	<a href="#">Playlist</a>	Videos	
Optimizing CA Database Performance Management for DB2 for z/OS 100	<a href="#">06DBT10090</a>	Web-Based	.75 Hours
CA SYSVIEW® Performance Management Option for DB2 Overview 100	<a href="#">06SYS10110</a>	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2 Set Up Your User Profile 200	<a href="#">06SYS20250</a>	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2: Monitor Pool Metrics at the SSID Level 200	<a href="#">06SYS20260</a>	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2: Monitor Application and Thread Performance 200	<a href="#">06SYS20270</a>	Web-Based	.5 Hours
CA SYSVIEW® Performance Management Option for DB2: Monitor Current and Historical SQL Activity 200	<a href="#">06SYS20280</a>	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2: Work with Probe and Trace Requests 200	<a href="#">06SYS20290</a>	Web-Based	.25 Hours
CA SYSVIEW® Performance Management Option for DB2: Use the Exception Monitor 200	<a href="#">06SYS20300</a>	Web-Based	.25 Hours

To learn more about these courses, visit the following Learning Paths:

- [CA Database Administration for DB2](#)
- [CA Database Backup and Recovery for DB2](#)
- [CA Database Performance Management for DB2](#)
- [CA Database Tuning Optimizing and Testing for DB2](#)





# Thank You