



# PathPoint Software

---

Empower the Application Analyst to  
Optimize Mainframe Application Performance

*Understand How Your Mainframe Applications Really Work*





# PathPoint is a Mainframe Product

---

## Operating Systems

- z/OS & OS/390

## Table/File Access

- VSAM
- DB2
- IMS
- Temp Storage
- Transient Data

## TP Monitors

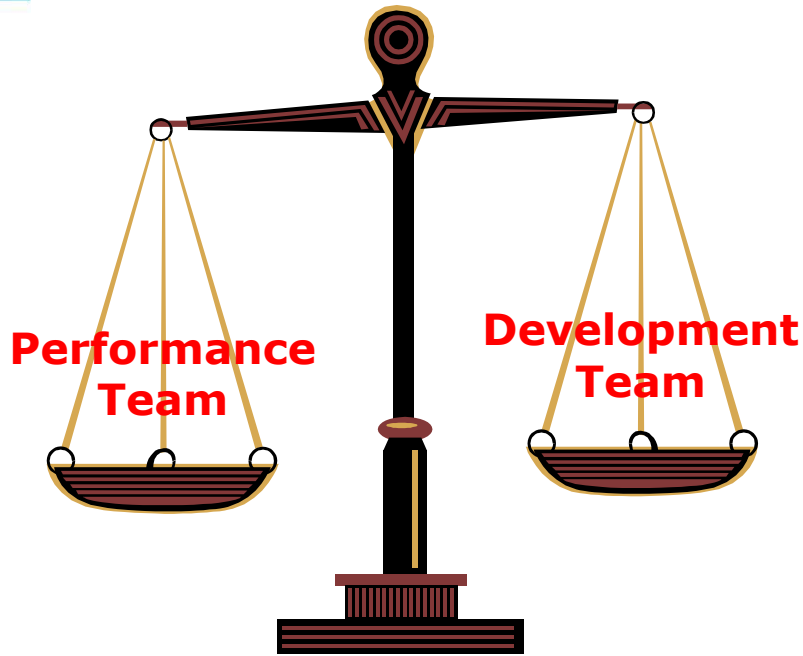
- CICS

## Batch Environments

- DB2
- IMS
- VSAM, Non-VSAM

## Application Language Independent

# The Perfect Performance World



**It Is Not a Perfect World**

- Design Applications for Performance
- Institute a Proactive Approach to Performance
- Embrace a Team Solution to Performance Challenges
- Communicate Performance Issues in a Common Way



# Application Analysts

## *Have Unique Performance Assessment Needs*

---


- The ability to evaluate application performance based on how the application really works
- Rapid and easy way to identify problem areas in the application
- Access to application performance information that is easy to use and understand
- Information that facilitates communication between analyst and performance team

# PathPoint Is Easy To Use

## *On-Line or Batch*

**Specified User**  
Enters Desired  
Business Transactions

***On-Line - by User-ID***



Account Number	1004
P.O. Number	A44065
Item Number	AS54386
Quantity	3

*Enter - New Orders*

**OR**

***Batch - by DB2 Plan Name***



***Identify*** – Job Name and Step #

**Mainframe Component**  
**Traces & Captures**  
Processing Paths  
As Application Executes

***Only by Identified User***



**Captured Results**  
Downloaded  
To PC Workstation  
**For Analysis**

**Performance Assessment**



# PathPoint Execution-Based Performance Information

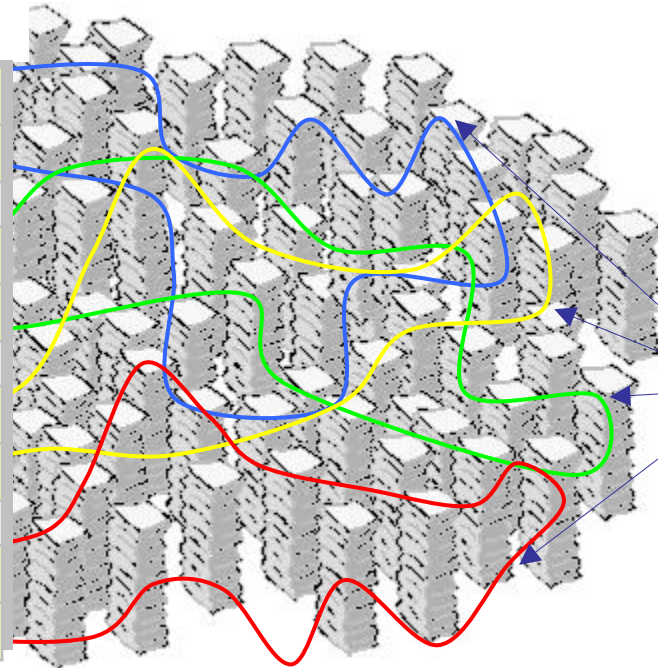
## *The Key to Understanding Application Performance*



### Application Processing Paths

### Input Instances

Account Number	INPUT
	OUTPUT
P.O. Number	INPUT
	OUTPUT
Item Number	INPUT
	OUTPUT
Quantity	INPUT
	OUTPUT



### Information Captured In Sequence

#### Call Path

- Sequence of Calls

#### Location

- Program name and source code statement number for each call

#### Frequency

- How many times each call is executed

#### Elapsed Time per Call

- How long each call took to execute

#### Interim Time Between Calls

- How long between end of one call and start of next call

#### Files Accessed by Call

- Table/file CRUD Matrix



# Captured Information Enables Application Analysts To Discover Performance Opportunities

---

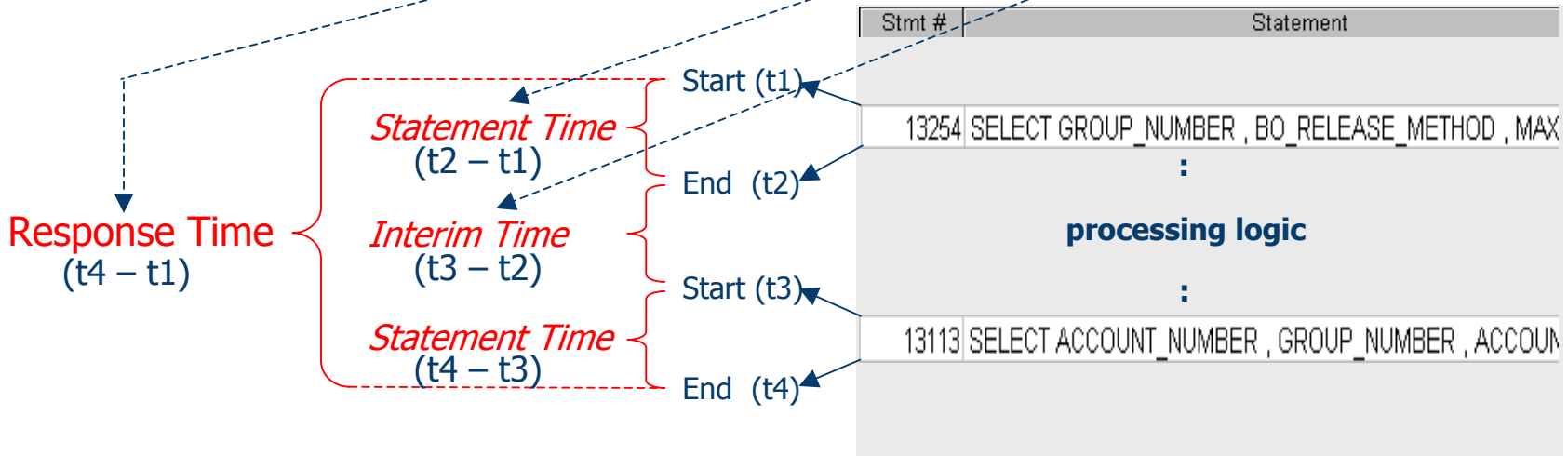
- Reduce or Eliminate Calls
  - Duplicates
  - Repeating patterns
  - Improper return code defaults
- Consolidate or Distribute Files/Tables
- Combine or Separate Program Functions
- Reduce Time for Long Running Calls
  - Access path analysis
- . . .

# PathPoint Basic Time Definitions

Scenario	User ID	Comment	% Dist	Sum Resp	User Time	Total Time	Total Calls	# Input Inst
▶ MULTIPLE LOCATIONS ACCOUNT#321007	UNEUMD2		50.00%	00:24	08:11	08:35	241	53
SINGLE ORDER ACCOUNT#321017	UNEUMD2		50.00%	00:05	01:37	01:42	169	12
*								

*Input Instances for Scenario*

User Seq #	Inst #	Name	Description	Type	# Trans	# Calls	Resp Time	Stmts Resp	Stmts Interim
▶ 25	26	OE03		OC	1	7	5.619000	0.048930	5.570356
29	30	OE05		OC	1	43	2.737000	1.633076	1.103437
37	38	OE02		OC	1	4	2.490000	2.339308	0.150539



# The PathPoint Approach to Performance

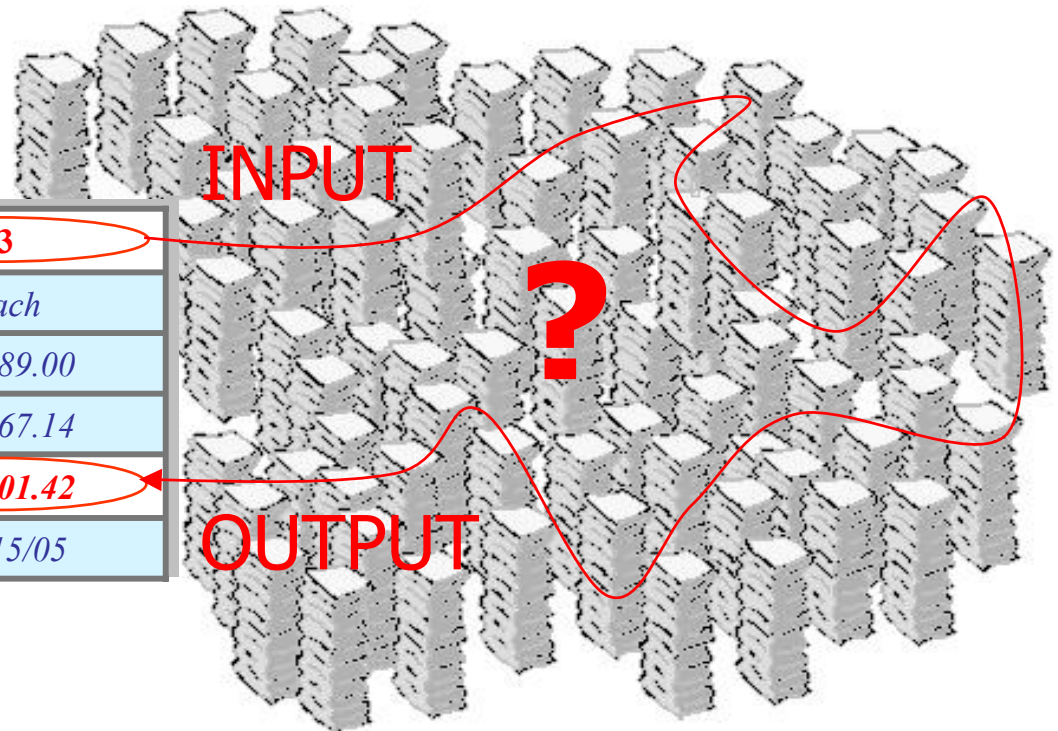
## *An Input Instance - Quantity*

### What Happened?



**Input Instance**

<b>Quantity</b>	3
Unit of Measure	Each
List Price	\$1,589.00
Unit Discounted Price	\$1,367.14
<b>Extended Price</b>	<b>\$4,101.42</b>
Requested Ship Date	08/15/05



# Input Instance – Captured Call Path Information

## *Basic Performance Information*

Response Time	Interim Time	Program Name	Call Stmt Number	Call Statements In Sequence	Status Code			
Seq	Resp	Interim Time	Subsystem	Pgm/Pkg	Call Type	Stmt #	Statement	Status
35	0.001505	0.000000	DB2A	WDBTBCOD	DB2	1553	OPEN DEENVIR-CURSOR	0
36	0.000229	0.000171	DB2A	WDBTBCOD	DB2	1570	FETCH DEENVIR-CURSOR INTO : ENV-SHORT-DESC , : CENTU	0
37	0.000194	0.000106	DB2A	WDBTBCOD	DB2	1603	CLOSE DEENVIR-CURSOR	0
38	0.000543	0.753212	DB2A	WDBTBCOD	DB2	2253	SELECT LANGUAGE , LANGUAGE_DESC , CHARACTER_SET_C	100
39	0.000586	0.000000	DB2A	WDBTBCOD	DB2	1914	SELECT ERROR_MSG_NUMBER , SEVERITY INTO : S010-ERRC	100
40	0.000656	0.000000	DB2A	WDBTBLOG	DB2	2721	INSERT INTO WLOGD010 ( BATCH_FLOW_ID , CYCLE_NUMBEF	0
41	0.001311	0.000312	DB2A	WDBTBCOD	DB2	1687	SELECT ERROR_MSG_NUMBER , LANGUAGE , SEQUENCE_NI	0
42	0.001885	0.000000	DB2A	WDBTBCOD	DB2	1914	SELECT ERROR_MSG_NUMBER , SEVERITY INTO : S010-ERRC	100
43	0.001158	0.000000	DB2A	WDBTBLOG	DB2	2721	INSERT INTO WLOGD010 ( BATCH_FLOW_ID , CYCLE_NUMBEF	0
44	0.000515	0.000303	DB2A	WDBTBCOD	DB2	1687	SELECT ERROR_MSG_NUMBER , LANGUAGE , SEQUENCE_NI	0
45	0.000350	0.000000	DB2A	WDBTBCH1	DB2	818	SELECT BATCH_FLOW_ID , CYCLE_NUMBER , LOAD_IMAGE_N	100
46	0.000667	0.001728	DB2A	WDBTBCH1	DB2	938	INSERT INTO WCHKD010 ( BATCH_FLOW_ID , CYCLE_NUMBEF	0
47	0.000980	0.000000	DB2A	WDBTBCOD	DB2	1914	SELECT ERROR_MSG_NUMBER , SEVERITY INTO : S010-ERRC	100
48	0.000469	0.000000	DB2A	WDBTBLOG	DB2	2721	INSERT INTO WLOGD010 ( BATCH_FLOW_ID , CYCLE_NUMBEF	0
49	0.000439	0.000234	DB2A	WDBTBCOD	DB2	1687	SELECT ERROR_MSG_NUMBER , LANGUAGE , SEQUENCE_NI	0
50	0.000000	0.000000	DB2A	SAEB0002	DB2	1849	SET HOST VARIABLE WS-CURRENT-DATE = CURRENT_DATE	0
51	0.000730	0.000000	DB2A	SAEB0000	DB2	599	SELECT UNIV_CD_DESC_TXT INTO :DCLSAV00000-UNIVCODE	0
52	0.003634	0.000000	DB2A	WDBTBDR1	DB2	730	SELECT * INTO : OUTP-BATCH-FLOW-ID , : OUTP-CYCLE-NUME	0
53	0.000473	0.000000	DB2A	WDBTBCH1	DB2	818	SELECT BATCH_FLOW_ID , CYCLE_NUMBER , LOAD_IMAGE_N	0
54	0.000814	0.076722	DB2A	WDBTBCH1	DB2	911	UPDATE WCHKD010 SET UNFORMATTED_AREA = : INPT-UNF	0
55	0.000000	0.000000	DB2A	SAEB0002	DB2	1849	SET HOST VARIABLE WS-CURRENT-DATE = CURRENT_DATE	0
56	0.003397	0.000000	DB2A	SAEB0003	DB2	324	SELECT UNIV_CD_DESC_TXT INTO :DCLSAV00000-UNIVCODE	0

# Identifying a Long Running Call . . .

## Performance Summary View

	Total	% Total	Freq	Subsystem	Trans/Step	Pgm/Pkg	Call Type	Stmt #	Statement
▶	35.645	68.7%	5	DB2A	SAE630AD	SAEH6324	DB2	9144	OPEN MBR_CSR
	0.942	1.8%	1	DB2A	SAE630AD	WDBTBCOD	DB2	2070	SELECT SQLCODE , SEVERITY INTO : SC
	0.911	1.8%	3	DB2A	SAE630AD	SAEH6320	DB2	2853	DELETE FROM SAV11900_MBRCHGTRG
	0.685	1.3%	12	DB2A	SAE630AD	SAEB6910	DB2	4923	SELECT MBR_ID INTO :DCLSAV13100-ME
	0.632	1.2%	11	DB2A	SAE630AD	SAEB6035	DB2	3501	INSERT INTO SAV37301_MBRSHPCHG ( I
	0.446	0.9%	11	DB2A	SAE630AD	SAEB6950	DB2	2230	INSERT INTO SAV08301_MBRACTHST ( M
	0.391	0.8%	26	DB2A	SAE630AD	SAEB6969	DB2	3798	UPDATE SAV10000_MBRAXBILR SET FS
	0.348	0.7%	12	DB2A	SAE630AD	SAEB6910	DB2	6496	INSERT INTO SAV12300_MBRMCMCSA V

**Observation:** 69% of time spent on five executions of same call statement (#9144)

## Performance Detail View

	Seq	Resp	TP Subsystem	Pgm/Pkg	Call Type	Stmt #	Statement	Status	Start Time
▶	1618	10.061	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:35 PM
	2357	9.904	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:47 PM
	796	5.296	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:19 PM
	1219	5.230	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:29 PM
	3045	5.154	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:58 PM
	3200	0.942	DB2A	WDBTBCO	DB2	2070	SELECT SQLCODE , SEVERITY INTO : SDBS-SQLCODE , :	100	9:33:06 PM
	780	0.909	DB2A	SAEH6320	DB2	2853	DELETE FROM SAV11900_MBRCHGTRG WHERE :DCLSA	0	9:32:18 PM
	206	0.306	DB2A	SAEB6035	DB2	3501	INSERT INTO SAV37301_MBRSHPCHG ( MBRCHG_PST_7	0	9:32:13 PM
	537	0.289	DB2A	SAEH6322	DB2	7498	INSERT INTO SAV09402_DEP_SBSC ( DEP_SBSC_EFF_D'	0	9:32:15 PM
	127	0.282	DB2A	SAEB6910	DB2	4923	SELECT MBR_ID INTO :DCLSAV13100-MBRAXBILR.MBR-ID	0	9:32:12 PM

# Analyze First Occurrence of Statement #9144 . . .

Seq	Resp	TP Subsystem	Pgm/Pkg	Call Type	Stmt #	Statement	Status	Start Time
1618	10.061	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:35 PM
2357	9.904	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:47 PM
796	5.296	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:19 PM
1219	5.230	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:29 PM
3045	5.154	DB2A	SAEH6324	DB2	9144	OPEN MBR_CSR	0	9:32:58 PM

**Observation:** Long running statement occurs when reading table SATSB122\_MBRMCSACT ...

**Next Step:** Examine the query to determine how it is using table SATSB122\_MBRMCSACT

Action	SQL QN 9144	Len	68	QN	9144	QN DCL	5037					
Program	SAEH6324	# Col	10	Plan	SAE630AD							
Type	OPEN	# Pred	19	Pkg	SAEH6324							
Import	3/24/2000 3:26:13 AM	ColF	<input type="checkbox"/>	Version	1997-05-09-08.55.53.961645							
Stmt Bino	3/24/2000 3:26:13 AM	Return	0	Collid	PROD							
<b>Stmt DML</b> DECLARE MBR_CSR CURSOR FOR SELECT DISTINCT T131 . MBR_ID , T094 . DEP_SBSC_EFF_DT , T094 . DEP_SBSC_END_DT , T058 . FSC_ID , T025 . HBP_ID , T131 . MBRC_ID , T131 . MBRMC_EFF_DT , T131 . MBRMC_END_DT , T094 . DEP_SBSC_REL_CD , T054 . MBR_BTH_DT FROM SAV05801_MBR_COVG T058 , SAV13100_MBRXMBRC T131 , SAV05401_MEMBER T054 , SAV12200_MBRMCSACT T122 , SAV09402_DEP_SBSC T094 , SAV02500_FSCOVERGE T025 WHERE T058 . SBSC_ID = :WS-HOLD-AREA.WS-CSR-SBSC-ID AND T058 . FSC_ID = :WS-HOLD-AREA.WS-OLD-FSC-ID AND T094 . FS_ID = :WS-HOLD-AREA.WS-FS-ID AND T094 . SBSC_ID = T058 . SBSC_ID												
QB	STEP	METH	Path	File Mgmt	# Rows In	Elapsed	# Qual	Table	TBNO	AT	MCOL	Index
	1	1 0	MIS	DB2A	-	0.00	1	SATFR025_FSCOVERGE	6	I	1	SAIFR025
	1	2 1 NLJ	MIS	DB2A	1	0.02	1	SATSB058_MBR_COVG	1	I	1	SAISB058
	1	3 1 NLJ	MIS	DB2A	1	0.00	2	SATSB094_DEP_SBSC	5	I	1	SAISB094
	1	4 1 NLJ	MIS	DB2A	2	0.06	2	SATSB131_MBRXMBRC	2	I	2	SAISB131
	1	5 1 NLJ	MIS	DB2A	2	0.06	2	SATSB054_MEMBER	3	I	1	SAISB054
	1	6 1 NLJ	NMIS	DB2A	2	9.88	826,904	SATSB122_MBRMCSACT	4	I	0	SAISB122
	1	7 3 SRT	SORT		-	0.04	2		0		0	

# Solving the Problem . . .

```

Stmt DML DECLARE MBR_CSR CURSOR FOR SELECT DISTINCT T131 . MBR_ID , T094 . DEP_SBSC_EFF_DT , T094 . DEP_SBSC_END_DT , T058 . FSC_ID , T025 . HBP_ID , T131 .
MBRC_ID , T131 . MBRMC_EFF_DT , T131 . MBRMC_END_DT , T094 . DEP_SBSC_REL_CD , T054 . MBR_BTH_DT FROM SAV05801_MBR_COVG T058 ,
SAV13100_MBRXMBRC T131 , SAV05401_MEMBER T054 , SAV12200_MBRMCSACT T122 , SAV09402_DEP_SBSC T094 , SAV02500_FSCOVERGE T025 WHERE T058 .
SBSC_ID = :WS-HOLD-AREA.WS-CSR-SBSC-ID AND T058 . FSC_ID = :WS-HOLD-AREA.WS-OLD-FSC-ID AND T094 . FS_ID = :WS-HOLD-AREA.WS-FS-ID AND T094 .
SBSC_ID = T058 . SBSC_ID AND T058 . FSC_ID = T025 . FSC_ID AND T025 . FS_ID = T094 . FS_ID AND T131 . MBRC_ID = T058 . MBRC_ID AND T131 . PST_STA_CD <>

```

QB	STEP	METH	Path	File Mgmt	Table	TBNO	AT	MCOL	Index	IXO	NU	NJ	NO	NG	CU	CJ	CO	CG	PRE	FN
1	1	0	MIS	DB2A	SATFR025_FSCOVERGE	6	1	1	SAIFR025	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	2	1	NLJ	MIS	DB2A	SATSB058_MBR_COVG	1	1	SAISB058_0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	3	1	NLJ	MIS	DB2A	SATSB094_DEP_SBSC	5	1	SAISB094_0	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	4	1	NLJ	MIS	DB2A	SATSB131_MBRXMBRC	2	1	SAISB131	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	5	1	NLJ	MIS	DB2A	SATSB054_MEMBER	3	1	SAISB054	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
1	6	1	NLJ	NMIS	DB2A	SATSB122_MBRMCSACT	4	1	SAISB122_02	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	S
1	7	3	SRT	SORT		0		0		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Approach:** Investigate the use of fourth table specified in query

**Observation:**  
Query makes no reference to table

**Result:**  
a non-matching index scan of table for each qualified row

```

DECLARE MBR_CSR CURSOR FOR
SELECT DISTINCT T131 . MBR_ID , T094 . DEP_SBSC_EFF_DT , T094 . DEP_SBSC_END_DT , T058 .
FSC_ID , T025 . HBP_ID , T131 . MBRC_ID , T131 . MBRMC_EFF_DT , T131 . MBRMC_END_DT ,
T094 . DEP_SBSC_REL_CD , T054 . MBR_BTH_DT
FROM SAV05801_MBR_COVG T058 , SAV13100_MBRXMBRC T131 , SAV05401_MEMBER T054 ,
SAV12200_MBRMCSACT T122 , SAV09402_DEP_SBSC T094 , SAV02500_FSCOVERGE T025
WHERE T058 . SBSC_ID = :WS-HOLD-AREA.WS-CSR-SBSC-ID AND T058 . FSC_ID = :WS-HOLD-AREA.WS-
OLD-FSC-ID AND T094 . FS_ID = :WS-HOLD-AREA.WS-FS-ID AND T094 . SBSC_ID = T058 . SBSC_ID
AND T058 . FSC_ID = T025 . FSC_ID AND T025 . FS_ID = T094 . FS_ID AND T131 . MBRC_ID =
T058 . MBRC_ID AND T131 . PST_STA_CD <> :WS-CB880005-LITERALS.LT-NULLED AND T094 . MBR_ID
= T054 . MBR_ID AND T094 . MBR_ID = T131 . MBR_ID
ORDER BY T131 . MBRC_ID , T094 . DEP_SBSC_REL_CD DESC , T131 . MBRMC_EFF_DT DESC

```

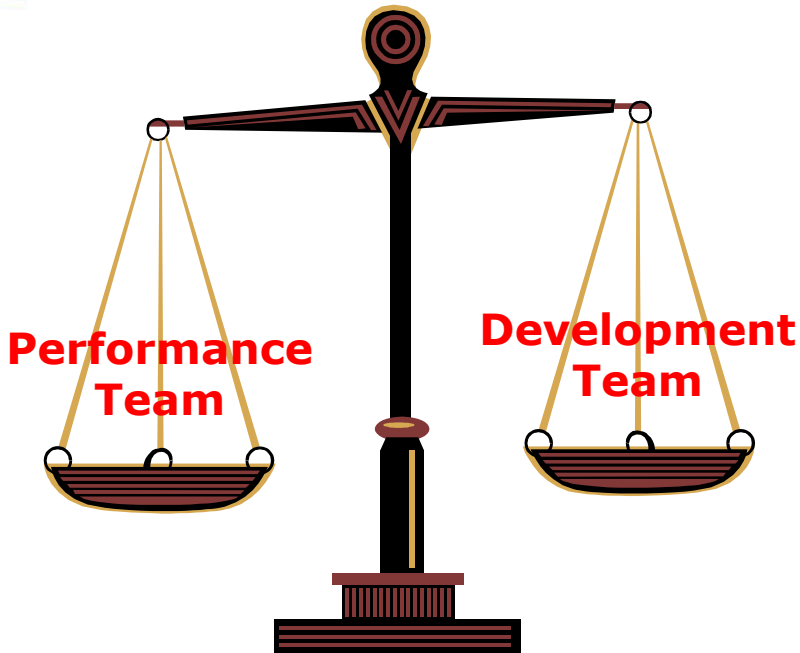
**Recommended Solution**  
Remove un-referenced table from query

# Or Generate a Report for the Performance Team

<i>Seq No</i>	1618	<i>SQLSTATE</i>	0	<i># Columns</i>	10	<i>Package</i>	SAEH6324	<i>% Trn/Step</i>	9.56%
<i>QNDDECL</i>	5037	<i>Program</i>	SAEH6324			<i>Version</i>	1997-05-09-08.55.53.961645		
<i>Cursor</i>	MBR_CSR			<i># Predicates</i>	19	<i>COLLID</i>	PROD		
<b>Statement</b>	<i>Subsystem</i>		DB2A	<i>CONTOKEN</i>		15D4388F1BD92B46			
OPEN MBR_CSR									
<b>Declare Statement</b>									
DECLARE MBR_CSR CURSOR FOR									
SELECT DISTINCT T131 . MBR_ID , T094 . DEP_SBSC_EFF_DT , T094 . DEP_SBSC_END_DT , T058 . FSC_ID , T025 . HBP_ID , T131 . MBRC_ID , T131 . MBRMC_EFF_DT , T131 . MBRMC_END_DT , T094 . DEP_SBSC_REL_CD , T054 . MBR_BTH_DT									
FROM SAV05801_MBR_COVG T058 , SAV13100_MBRXMBRC T131 , SAV05401_MEMBER T054 , SAV12200_MBRMCSACT T122 , SAV09402_DEP_SBSC T094 , SAV02500_FSCOVERGE T025									
WHERE T058 . SBSC_ID = :WS-HOLD-AREA\WS-CSR-SBSC-ID AND T058 . FSC_ID = :WS-HOLD-AREA\WS-OLD-FSC-ID AND T094 . FS_ID = :WS-HOLD-AREA\WS-FS-ID AND T094 . SBSC_ID = T058 . SBSC_ID AND T058 . FSC_ID = T025 . FSC_ID AND T025 . FS_ID = T094 . FS_ID AND T131 . MBRC_ID = T058 . MBRC_ID AND T131 . PST_STA_CD <> :WS-CB880005-LITERALS.LT-NULLED AND T094 . MBR_ID = T054 . MBR_ID AND T094 . MBR_ID = T131 . MBR_ID									
ORDER BY T131 . MBRC_ID , T094 . DEP_SBSC_REL_CD DESC , T131 . MBRMC_EFF_DT DESC									
<b>Tables and Columns Used in Query</b>									
<u>Name</u>	<u>Index</u>	<u>Returned Len</u>	<u>Row Len</u>	<u>Returned Cols</u>	<u>Table Cols</u>	<u>QB</u>	<u>Step</u>	<u>Table Reference in Query</u>	
<b>SATFR025_FSCOVERGE</b>	<b>SAIFR025</b>	<b>10</b>	<b>147</b>	<b>1</b>	<b>19</b>	<b>1</b>	<b>1</b>	<b>T025</b>	
<u>Column</u>	<u>Type</u>	<u>Len</u>	<u>Col Card</u>	<u>Col Seq</u>	<u>Sel</u>	<u>Pred</u>	<u>Idx Use</u>	<u>Note</u>	
FS_ID	TIMESTAMP	10	7,266	-	N	Y	1	*** Search field is not in the search index	
FSC_ID	TIMESTAMP	10	18,642	-	N	Y	3		
HBP_ID	TIMESTAMP	10	9,205	5	Y	N	2		
<b>SATSB058_MBR_COVG</b>	<b>SAISB058_01</b>	<b>10</b>	<b>116</b>	<b>1</b>	<b>13</b>	<b>1</b>	<b>2</b>	<b>T058</b>	
<u>Column</u>	<u>Type</u>	<u>Len</u>	<u>Col Card</u>	<u>Col Seq</u>	<u>Sel</u>	<u>Pred</u>	<u>Idx Use</u>	<u>Note</u>	
FSC_ID	TIMESTAMP	10	17,169	4	Y	Y	1	*** Search field is not in the search index	
MBRC_ID	TIMESTAMP	10	121,611	-	N	Y	1	*** Search field is not in the search index	
SBSC_ID	TIMESTAMP	10	70,467	-	N	Y	1		
<b>SATSB094_DEP_SBSC</b>	<b>SAISB094_01</b>	<b>16</b>	<b>164</b>	<b>3</b>	<b>22</b>	<b>1</b>	<b>3</b>	<b>T094</b>	
<u>Column</u>	<u>Type</u>	<u>Len</u>	<u>Col Card</u>	<u>Col Seq</u>	<u>Sel</u>	<u>Pred</u>	<u>Idx Use</u>	<u>Note</u>	
DEP_SBSC_EFF_DT	DATE	4	110	2	Y	N	2		
DEP_SBSC_END_DT	DATE	4	55	3	Y	N	1		
DEP_SBSC_REL_CD	CHAR	8	5	9	Y	N	1		
FS_ID	TIMESTAMP	10	7,065	-	N	Y	4	*** Search field is not in the search index	
MBR_ID	TIMESTAMP	10	107,296	-	N	Y	2	*** Search field is not in the search index	
SBSC_ID	TIMESTAMP	10	70,483	-	N	Y	2		



# PathPoint – A New Approach to Performance



**Designed for the  
Application Analyst**

- ✓ Application Performance From a Business Perspective
- ✓ Simplified Way to Understand How Applications Really Perform
- ✓ Resolve Application Performance Problems Before Entering Production
- ✓ A Vehicle for Developing a Proactive Approach to Performance
- ✓ Simplified Approach To Team Performance Challenges
- ✓ Common Communication Method