Input to the tool: Sample IDMS schema report

PECORD NAME	ATSPUTL						
RECORD VERSION	0002						
RECORD ID	9001						
RECORD LENGTH	FIRED						
LOCATION MODE	VIA SET ATS	SAST-ATSPOTE	91	SPLACE	MENT 0000	PAGES	
WITHIN	ABSA-TCARCTA	OFFSET		0 PCT		100 FCT	
DEKEY POSITIONS	SET	TTPE	NEXT	PRIOR	OWNER		
	ATSMAST-ATSPOTL ATSPART-ATSPOTL ATSPOTL-INTROME	MEMBER.	1	2	3		
	ATSPART-ATSPOTL	MEMBER	4	5	6		
	ATEPPTL-INTRODU	OWNER	7				
DATA ITEM	REDEFINES	3540E	VALUE				. PICTURE.
GE OTT-ATSPOTA-ROST		DISPLAT					9 (7) 1999
OR OTT-ATSPOTL-SHIP		DISPLAY					9 (7) 1999
01 QTY-ATSPOTL-SHIP 02 QTY-ATSPOTL-SCV 02 QTY-ATSPOTL-SHIP-		DISPLAT					9 (7) 1999
OF OLIVERAL SALES	TO-DATE	DISPLAT					9 (7) 9999
OZ OTY-ATSPOTL-ROV-1	TO-DATE	DISPLAT					9 (7) 9999
OZ COST-ATSPETL-UNIT		DISPLAT					9 (5) V999
		DISPLAT					9(2)
02 CL3-ATSF0TL-CNTM		DISPLAT					X(5)
02 CL3-ATSFOTL-CNTM 02 CL3-ATSFOTL-THR 02 NBR-ATSFOTL-THR		DISPLAT					X(10)
OZ NER-ATSPOTL-DISP		DISPLAT					X(10)
G2 NEW-ATSPOTL-VEND-AUTH		DISPLAT					I(9)
G2 NER-ATSFOTL-GSO		DISPLAT					9(6)
G2 NBS-ATSFOTL-CHAS		DISPLAT					X(5)
OZ NEW-ATSPOTL-MOL		DISPLAT					I(10)
OU TEXT-ATSPETL-COM		DISPLAT					X(25)
BLAE-JTGGETA-TMA DO		DISPLAT					9 (7) 9999
OZ MBR-ATSFOTL-LOT		DISPLAT					I(9)
OZ MBR-ATSFOTL-GRR		DISPLAT					I(10)
OI MER-ATEFOTL-REPL-		DISPLAT					I(25)
OR IND-ATSPOTL-INV-		DISPLAY					I
OZ MER-ATEPOTL-SHIP		DISPLAT					- 99
OZ NER-ATSFOTL-RCV		DISPLAT					- 99
GE QTT-ATSFOTL-PACKS		DISPLAT					9 [7] 17999
GZ CODE-ATSPETL-PRINT-LOC		DISPLAT					X(3)
GO FILLER-ATSPOTE		DISPLAT					X(5)

Output: Tool generated DDL

CREATE TABLE ATSPOTL(DECIMAL(8) NOT MULL,				
ATSPOTE_NEW_PK					
QTY_ATSEDTL_BQSTD	DECIMAL(10,3),				
QTY_ATSFDTL_SHIP	DECIMAL(10,3),				
QTY_ATSPDTL_RCV	DECIMAL(10,3),				
QTY_ATSPOTL_SHIP_TO_DATE	DECIRAL(10,3),				
QTY_ATSEDTL_ECV_TO_DATE	DECIMAL(10,3),				
COST_ATSFOTL_UNIT	DECIMAL(0,3),				
MDP_ATSPDTL_CNTNR	DECIMAL(D),				
CLS_ATSPOTL_CNINE	CHAR(S),				
MBS_ATSPOTL_MER	CHAR(10),				
MDR_ATHFOTL_DINF	CHAR(10),				
MDR_ATSFDTL_VEND_AUTH	CHAR(9),				
MBP_ATSFDTL_GSO	DECIMAL(6),				
MBB_ATSFOTL_CHAS	CHAR(S),				
MBB_ATSFOTL_MDL	CHAR(10),				
TEXT_ATSPOTL_COMMENTS	CHAR(25),				
AMT_ATSPOTE_SALE	DECIMAL(10,3),				
MDS_ATSFOTL_LOT	CHAR(9),				
MBR_ATBFOTL_GRR	CHAD(10),				
MDR_ATSFOTL_REPL_PART	CHAR(25),				
IMD_ATSFOTL_INV_STAT	CHAR(1),				
MDP_ATHFOTL_SMIP	DECIMAL(2),				
MBR_ATSFOTL_ECV	DECIMAL(2),				
QTY_ATSPOTL_PACKED	DECIMAL(10,3),				
CODE_ATSPOTL_PRINT_LOC	CHAR(3),				
FILLED_ATSPOTL	CHAR(S),				
KEY_ATSMAST	CHAR(10),				
NDP_ATSPART	CHAR(25),				
PRIMARY REY(ATSPOTL_NEW_PR));					
CREATE UNIQUE INDEX ATSPDTL_UNQ_I	DX ON ATSPOTL(ATSPOTL_NEW_PR);				
CREATE TABLE ATSPART (
MDR_ATSPART	CHAR(25) NOT NULL,				
CODE_ATSPART_UM	CHAR(2),				
DESC_ATSPART	CHAR(30),				
CODE_ATSPART_BUYER	CHAR(3),				

Additional services

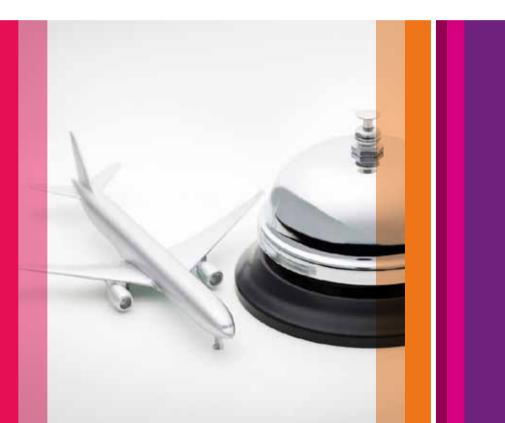
There are situations where application re-write is not preferred, and hence the existing COBOL code needs to be retained on the target platform with RDBMS as database.

- Replace IDMS DML with a common bridge program:
- A common bridge program will access the new RDBMS DB using the IDMS query as parameter
- Set of tools will ensure the application program changes for accessing bridge programs
- Advantages:
- Utilizes the same IDMS query to access RDBMS DB; bridge programs handle the mapping of the query to the new DB
- Usage of copybooks:
- Every IDMS DML will be replaced by copybooks with internal access to the new RDBMS DB
- The tool handles creation of copybooks; application program changes to replace IDMS DML with RDBMS calls
- Advantages:
- Enhancements can be made by including either copybooks or by direct SQLs



When traveling, it's smartest to de-risk the journey.

D-MIGRATE™ for IDMS to RDBMS



About Mindtree

Mindtree is a global information technology solutions company with revenues of over USD 400 million. Our team of 11,000 experts engineer meaningful technology solutions to help businesses and societies flourish. We enable our customers achieve competitive advantage through flexible and global delivery models, agile methodologies and expert frameworks.

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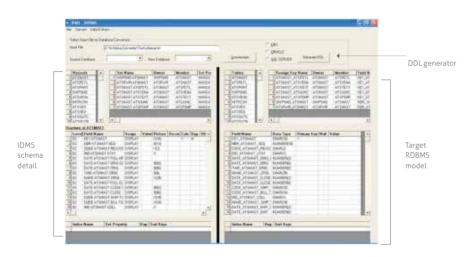
Welcome to possible

Product overview

When you're traveling, it's a smart choice to choose the fastest, safest and the most efficient vehicle. The objective is to reach a destination sooner and de-risk the journey.

When migrating from an IDMS to RDBMS platform, you need to ensure that you have de-risked the migration journey as much as possible. A proven methodology to de-risk this is by automating the migration process as much as possible. Mindtree's D-MIGRATE™ tool is designed to precisely address this. D-MIGRATE™ is designed to empower your IT resources to be able to execute a full database migration without the need for manual or semi-automated migration resources.

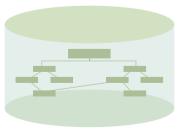
Considering the massive planning and architecture that is a part of your IDMS systems migration, a manual-based migration is perhaps not the best approach. Mindtree's D-MIGRATETM is a top-of-the-line, highly efficient and automated solution for migrating IDMS database on IBM Mainframe to any RDBMS. The data structure is migrated to a relational model, keeping all the connections and dependencies, while enabling excellent performance.



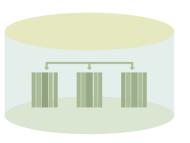
Interactive GUI of D-MIGRATE™ for IDMS to RDBMS systems

Key features of D-MIGRATE™

- Schema conversion: Creation of RDBMS (Oracle, DB2, SQL Server) DDLs from the IDMS schema report
- Data migration: Generates the data migration scripts (COBOL-IDMS programs) based on the target RDBMS model (these scripts will be executed in the IDMS region and will unload the existing data)
- Data validation and verification: D-MIGRATE™ will generate scripts which will provide the audit trail reports and referential integrity checks
- Generates JCLs to run the above generated programs
- * Please refer to the addendum overleaf







RDBMS

IDMS database

Key benefits of D-MIGRATE™

Business benefits

- Provides cost-effective and speedy migration
- Eliminates the IT resources problem
- Uses proven automated tools; thereby mitigating many of the project risks
- Provides a complete solution for database modernization
- Utilizes Mindtree's extensive experience with mainframe modernization projects

Technical benefits

- Enables close to 100% automated migration, with minimum manual intervention
- Migrates IDMS objects; retaining all the data elements and connections between them
- Provides modern RDBMS environment
- Audit trail reports for validation and verification of migrated data

Additional services

In addition to D-MIGRATE™, Mindtree's tried, tested and proven methodology for modernization projects reduces cost of rewriting code, code freeze, and other risks involved in developing the system. Mindtree IDMS suite of tools helps automate the following:

- JCL convertor for adopting the existing JCLs to RDBMS environment
- Automated toolset to upgrade application programs to access target RDBMS database
- * Please refer to the addendum overleaf

Key benefits

Business benefits

- Makes application enhancement easier
- Provides solution for language and platform migration
- Provides cost-effective migration

Technical benefits

- Enables reuse of existing and proven logic and business rules
- Provides flexibility to developers to enhance and maintain the application programs using both IDMS access statements and SQL statements or a combination of both

Scenarios of applicability

Pure DB migration (IDMS to RDBMS) (No platform and application change)

- Usage of D-MIGRATE™
- Additional services

DB and platform migration for re-hosting to newer platforms (No application change)

- Usage of D-MIGRATE™
- Additional services
- In-house migration tools

Application, DB, and platform migrations involving rewrites

- Usage of D-MIGRATE™
- In-house migration tools

Addendum

D-MIGRATE™

- DDL creation
- Generates DDL for Oracle, DB2 and SQL server from IDMS schema
- Data migration
- The tool generates COBOL IDMS programs with equivalent JCLs that will unload the data from IDMS database.
 The unload will happen based on the target RDBMS model
- Generates COBOL programs and equivalent JCLs that will verify and validate the data uploaded