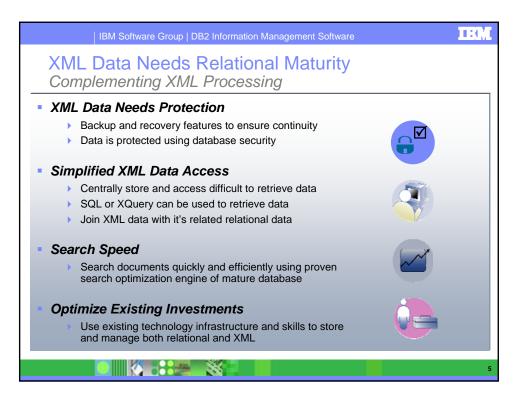
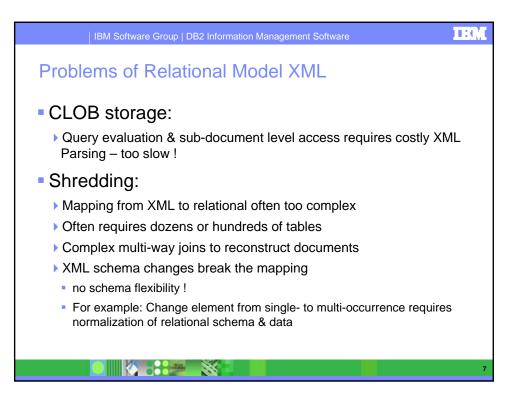


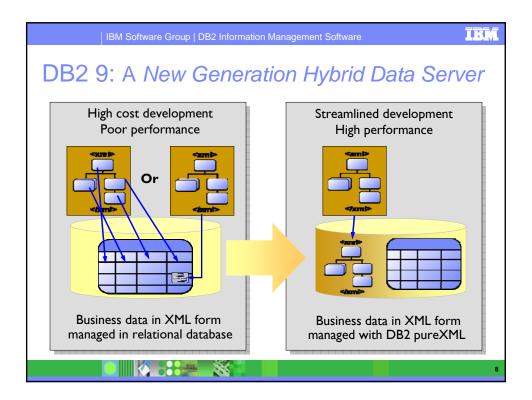


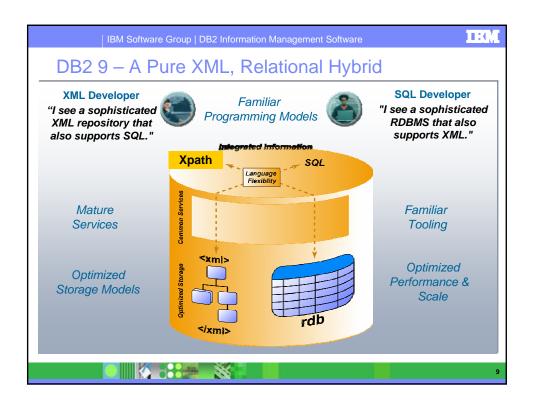
IBM Software Group DB2 Information Management Software
XML is the Language of Business
 Banking and Financial Markets IFX - Interactive Financial Exchange – Trades, banking, consumer transactions, etc. MISMO - Mortgages
 Insurance ACORD – Policy management, underwriting, indemnity, claims, etc. http://www.acord.org
 Healthcare HL7 – Patient Management – Diagnosis, treatments, prescriptions, etc. http://www.hl7.org
 Retail IXRetail – Inventory, customer transaction and employee management http://www.nrf-arts.org/
and hundreds more!

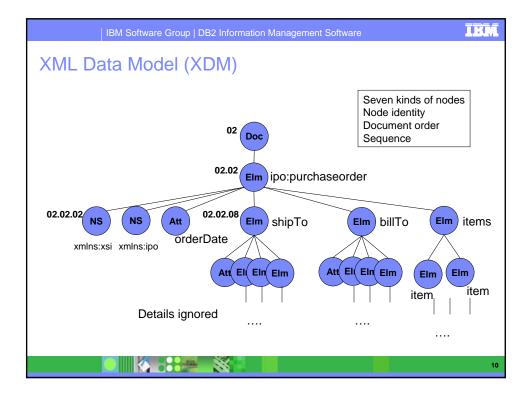


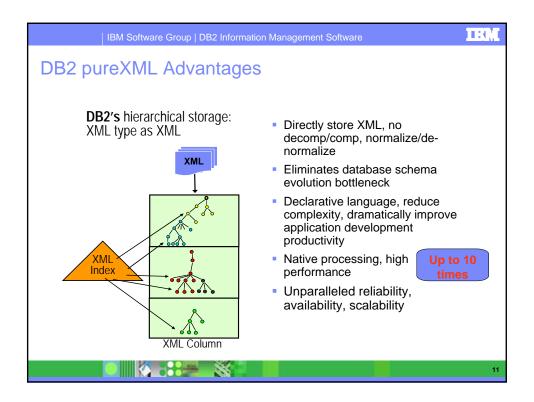
IBM Software Group DB2 Information Management Software	IBM
Yesterday's Solutions	
Not Persisting XML	
No cost effective solution	
XML in File Systems	
No elegant solution for backup, recover, search, retrieval	
XML Proprietary Databases	
Difficult to integrate with traditional relational data	
Relational Model Accommodations	
Shredding	
Large Objects	
	6



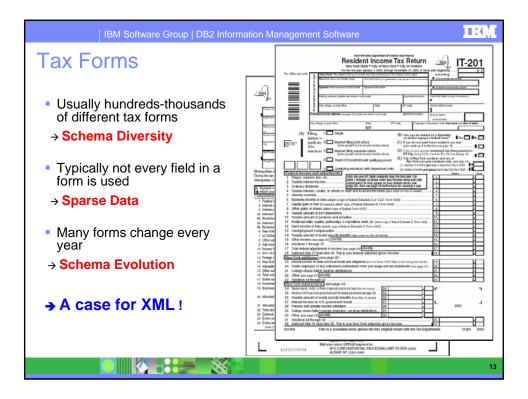


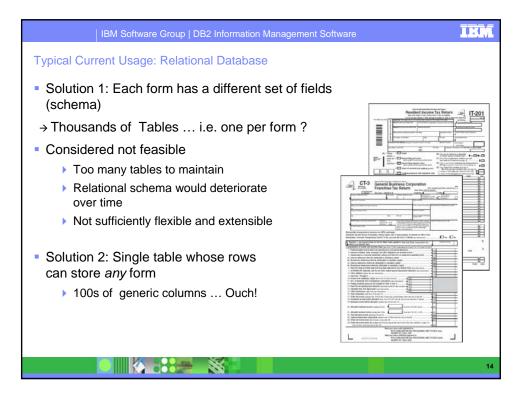


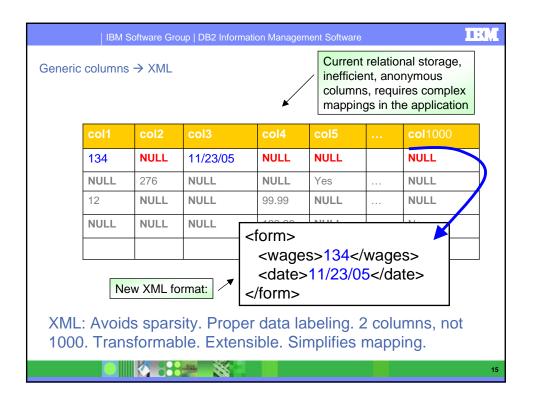


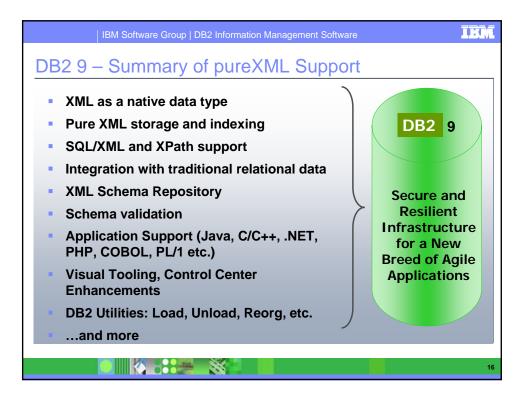


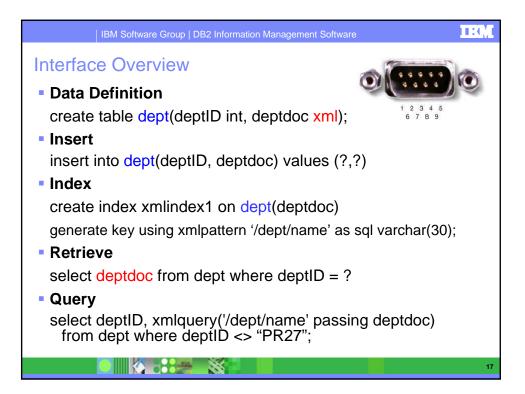
IBM Software Group DB2 Information Management Software	ĪBM
Example: Tax Forms	
 Application Processing & validating tax returns, payments, refunds Corporate Tax, Personal Income Tax (PIT), Sales Tax Objectives Move Tax processing off legacy systems Move to a more flexible, automated, extensible framework Reduce cost & labor for implementing tax form changes Increase performance. Improve straight-through processing from filing to refund/payment Typical current environment Processing using manual and/or legacy systems This is an example of usage for Online Forms processing in general 	
	12

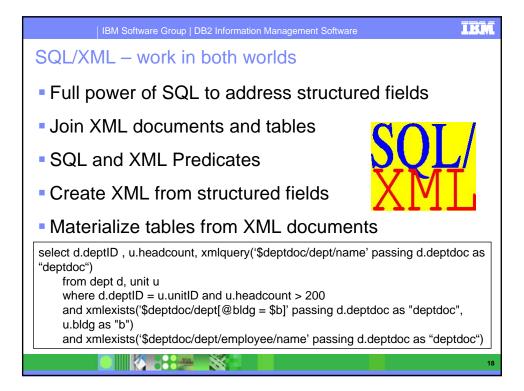


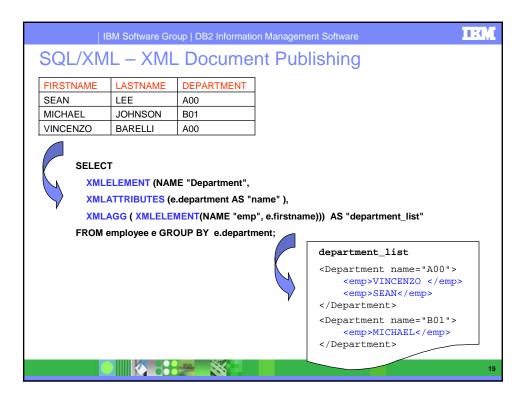


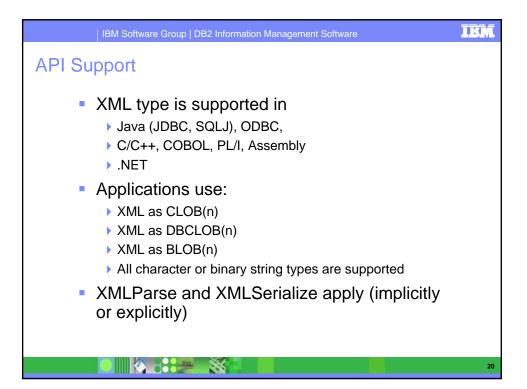


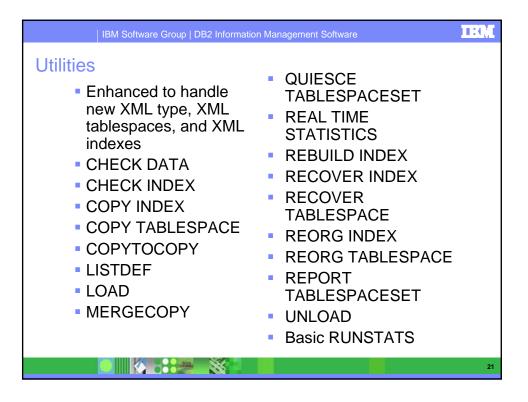


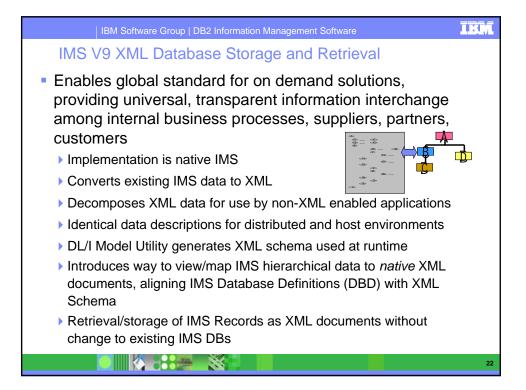


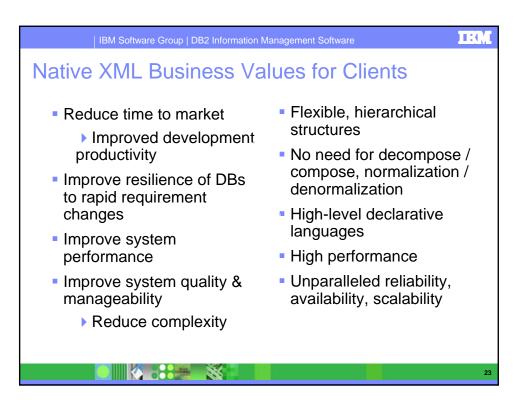


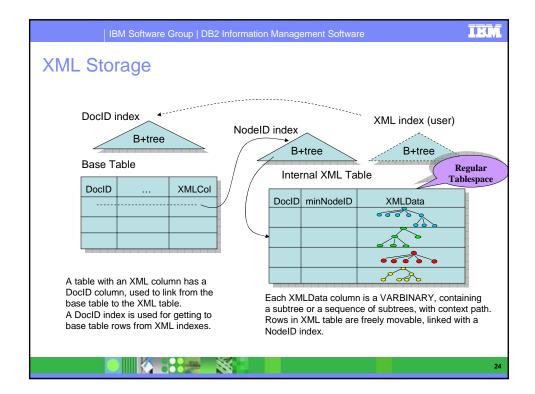


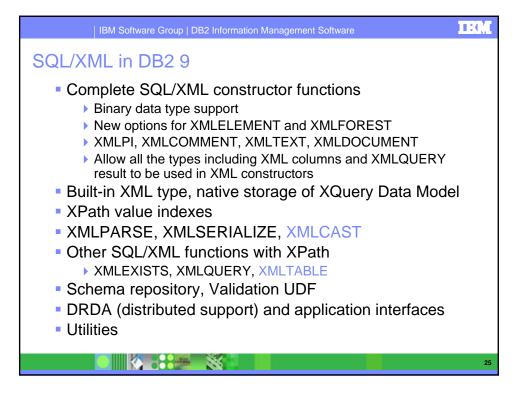


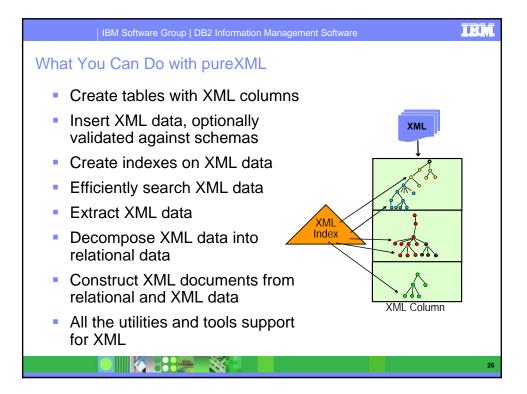


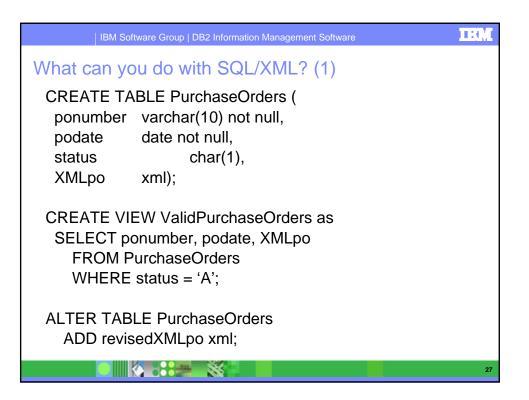




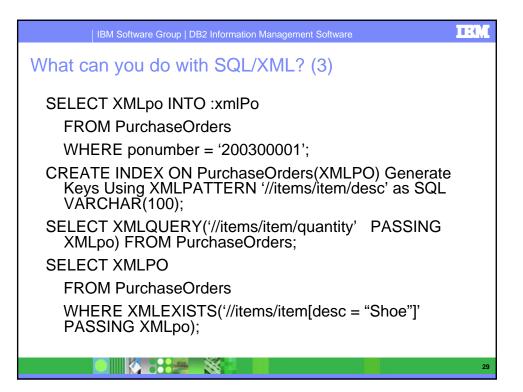




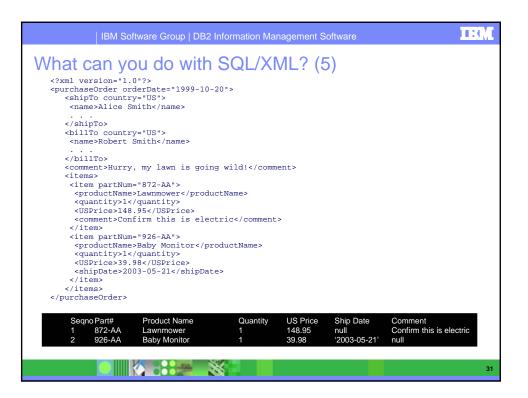




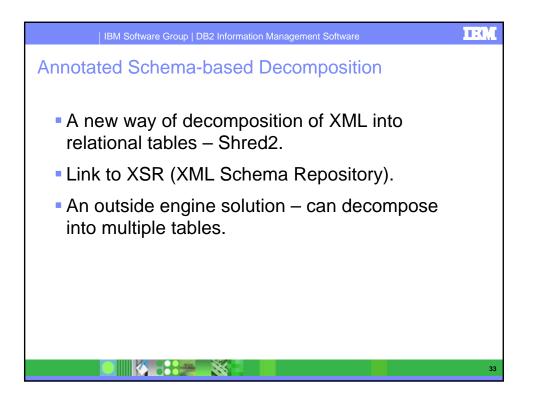
IBM Software Group DB2 Information Management Software	IBM
What can you do with SQL/XML? (2)	
EXEC SQL BEGIN DECLARE SECTION; SQL TYPE IS XML AS CLOB(1M) xmlPo; EXEC SQL END DECLARE SECTION; INSERT INTO PurchaseOrders VALUES ('200300001', CURRENT DATE, 'A', :xmlPo); INSERT into PurchaseOrders VALUES('200300001', CURRENT DATE, 'A', DSN_XMLValidate(:xmlPo,myPOSchema)); UPDATE PurchaseOrders SET XMLpo = XMPpo_backup WHERE ponumber = '12345'; DELETE FROM PurchaseOrders WHERE ponumber =	o
'12345'; LOAD into PurchaseOrders	
	28

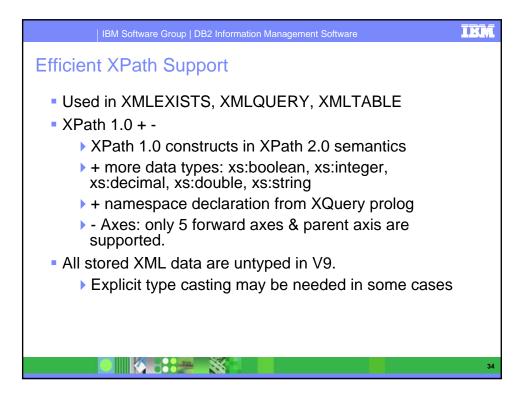


BM Software Group DB2	Information Management S	oftware	
What can you do with	SQL/XML? (4	4)	
SELECT TX.*			
FROM PurchaseOrders	PO,		
XMLTable ('//item'			
PASSING PO.XM	ILpo		
COLUMNS			
"Part #"	CHAR(6)	PATH '@partnum',	
"Product Name"	CHAR(20)	PATH 'productName',	
"Quantity"	INTEGER	PATH 'quantity',	
"US Price"	DECIMAL(9,2)	PATH 'USPrice',	
"Ship Date"	DATE	PATH 'shipDate',	
"Comment"	()	PATH 'comment'	
WITH ORDINALITY "Seqno") AS TX			
WHERE PO.ponumber	= '200300001';		
	š -	30	

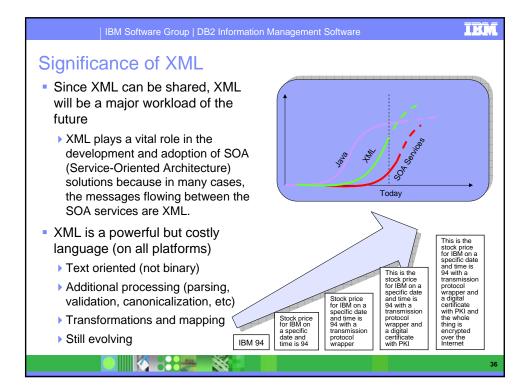


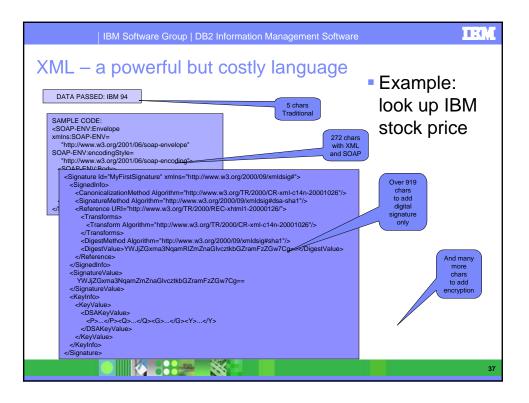
IBM Software Group DB2 Information Management Software	M
Registering XML Schemas	
XML Schema Repository (XSR): DB2 supplied user tables	
 How to identify a schema? External names target namespace (e.g., "http://www.w3.org/2001/XMLSchema") schema location (e.g., "http://www.ibm.com/schemas/sample.xsd") used in XML documents and registration SQL identifier unique identifier in DB, e.g., PURCHSYS."mySampleSchema" used to reference schemas in DDL statements 	
 Where are schemas used? > DSN_XMLValidate in SQL > Decomposition 	
	32



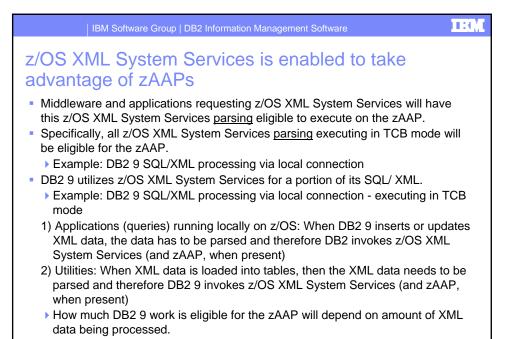








IBM Software Group DB2 Information Management Software	IBM
What is z/OS XML System Services?	
 An XML parser that is an integrated component of the z/OS base (1.8) High performance (short pathlength) Supports unique z/OS environments where minimum overhead is key SRB and TCB modes Cross-memory mode - No Language Environment[®] dependencies Non-validating parser with well-formedness checking No XML generation or XPath or XSLT processing capability Assembler interface (V1.8), C/C++ interface (V1.9) Available on z/OS V1.7 via SPE Simple call model that avoids event-driven interface overhead 	
 Ability to handle very large documents 	
XML documents parsed to a form readily usable by the invoking app	
 Intended for z/OS system environments, middleware, and applications that need to handle XML very efficiently 	
 DB2 9 for z/OS first IBM exploiter (via Assembler interface) 	
	38



X

