

Application development on IBM Informix Dynamic Server



Highlights

- ***Speed time to value with integrated database development tools***
- ***Develop industrial-strength integrated OLTP applications to take advantage of Informix***
- ***Help improve collaboration and reduce development costs with IBM Data Studio***
- ***Access new platforms and programming languages with IBM Data Server Clients***
- ***Focus technical resources on developing solutions instead of database administration tasks during development and deployment***

Competitive pressures, increasingly complex business problems and the demand for Web-enabled applications are driving the need for rapid application development. IBM is addressing that need with a new release of IBM® Informix® Dynamic Server (IDS 11). A next-generation data server, IDS 11 includes a range of enhancements to accelerate application development and offers access to additional tools and application development languages. This makes IDS an ideal choice for application developers who want to take advantage of its high-performance online transaction processing (OLTP) capabilities, low administration and high availability features.

IBM has introduced IBM Data Studio to further speed Informix application development. Data Studio is an integrated data development and management environment that complements IDS by helping to improve

collaboration among IT practitioners, integrating database development features on Eclipse and facilitating the version upgrade process. Data Studio adds even more value by working with Microsoft® Windows® and Linux® across the entire IBM data server portfolio.

In addition, IBM has released a collection of IBM Data Server Clients that includes Microsoft .NET, Ruby on Rails, Java™ and PHP (PHP: Hypertext Preprocessor) drivers for ease of application consumption.

With IDS 11, Data Studio and the server client drivers, customers can extend their existing Informix environment or build new solutions more quickly and easily than ever before. More importantly, customers with multiple data servers can now use a single environment to develop applications and also connect to any of their IBM databases using a common set of client software.

Accelerate and simplify Informix application development

IDS 11: A next-generation data server

IDS 11 is a next-generation data server that offers enhancements in application development, performance and scalability, reliability, availability and manageability. Those enhancements translate into better resource utilization, which can help lower costs of operation and improve uptime. Other new features in IDS can deliver improved security, reduced administration overhead and easier, faster software development.

IDS 11 can handle massive volumes of complex data at very high speeds—an essential capability in today's demanding, time-sensitive information management environments. Moreover, IDS 11 brings mainframe-like continuous availability and disaster recovery capabilities to global data centers.

Upgrading is as easy as installing the new version of IDS. Customers may also take this opportunity to analyze their data, restructure their database

and bring applications to the Web. Data Studio can facilitate the process—even generating SQL code from existing business logic to speed the building of new applications.

Key features of IDS 11 include:

- **New application development capabilities**—*Adapting the database to the design of a solution is easier than ever before. The new IDS 11 capabilities translate into faster development, higher performance and less complexity. On a business level, that enables faster time to value and lower application maintenance costs. Users also now have more application development language choices, including updated drivers for Java, .NET, Ruby and PHP. In addition, the new release features extended support for Service Oriented Architecture (SOA).*
- **Exceptionally fast performance**—*Informix has always been known for superior OLTP performance, which can translate to additional throughput, more capacity for additional users and*

the equivalent of adding more CPUs of processing power as well as increased scalability and reliability. This makes IDS a cost-effective data server choice for high-volume OLTP solutions.

- **High availability**—*To help ensure that a mission-critical system is available in case of a disaster, IDS 11 supports High Availability Data Replication (HDR), remote standalone secondary (RSS) and shared-disk secondary (SDS) servers and Enterprise Replication (ER).*
- **Ease of administration**—*Manageability is a major reason why IDS is IBM's database of choice for industrial-strength, integrated OLTP systems. The manageability benefits of IDS also make it ideal for small and medium businesses as well as enterprises.*
- **No-risk trial**—*IDS 11 Developer Edition is available at no cost and with no time limits. (Some scalability restrictions apply; for non-production use only.)*

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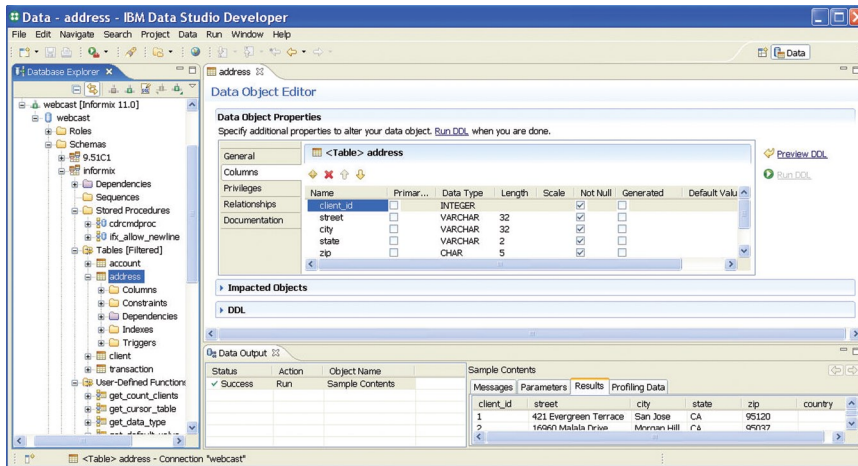


Figure 1: Users can manage database objects in Data Studio via an intuitive, time-saving interface.

IBM Data Studio: An integrated data development and management environment

IBM Data Studio is an integrated database development and management environment supporting IDS and IBM DB2® throughout the data life cycle. Data Studio empowers organizations to effectively design, develop, deploy and manage data, databases and database applications, and to increase productivity and collaboration across roles by utilizing a consistent interface and set of skills.

Data Studio enables an entire team of IT practitioners—data architects, application developers, database administrators (DBAs) and others—to collaborate and share development assets. Improving communication and collaboration can help reduce development time and costs by enabling team members to discover errors early in development rather than later, when rectifying them is more costly.

Data Studio is the foundation for an application development framework that consolidates servers and tools to

create a common set of data-driven application development environments and common application programming interfaces (APIs) that work across all IBM data servers. It offers enterprise integration with centralized authentication, database connectivity, customizable user interfaces, centralized maintenance and Eclipse integration for IBM and non-IBM products.

Key features of Data Studio include:

- **Single environment**—Data Studio provides an integrated environment that helps organizations develop and manage both IDS and DB2 data servers across platforms.
- **Reduced development costs**—Data Studio helps reduce the cost of developing and managing data by facilitating collaboration across roles—DBAs, developers and architects. Users can integrate Data Studio with existing tools and infrastructure, share common assets to help improve efficiency and governance and bridge the gap between data and Java technology.

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- **Available at no charge**—The core features of Data Studio are available for download as a non-warranted offering at no charge. However, as valued IBM data server customers, licensed IDS users can get technical support for Data Studio as part of their IDS entitlement.
- **Back-level support**—Data Studio supports back to IDS version 9. Organizations can explore new features of IDS 11 with Data Studio and plan migrations at their own pace.
- **Integrated support for Java and SQL**—Data Studio bridges the divide between relational data and Java technology. SQL Editor and SQL Builder have comprehensive support for IDS data servers. The integrated query content assistance and syntax validation support enhance developer productivity and application quality throughout the software development life cycle (see Figure 2).
- **Enable SOA**—Data Studio assists SOA initiatives by allowing organizations to develop and publish data as a Web service without programming (see Figure 3). The wizard-driven tool simplifies creation of Web services and auto-generates Web Services Description Language (WSDL) and test clients for targeted application servers.

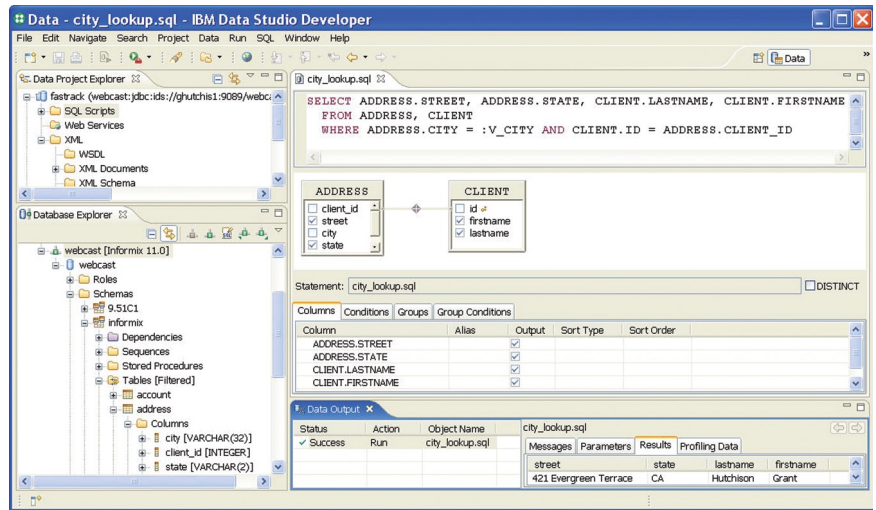


Figure 2: SQL Builder support enables on demand storing and retrieval of SQL queries.

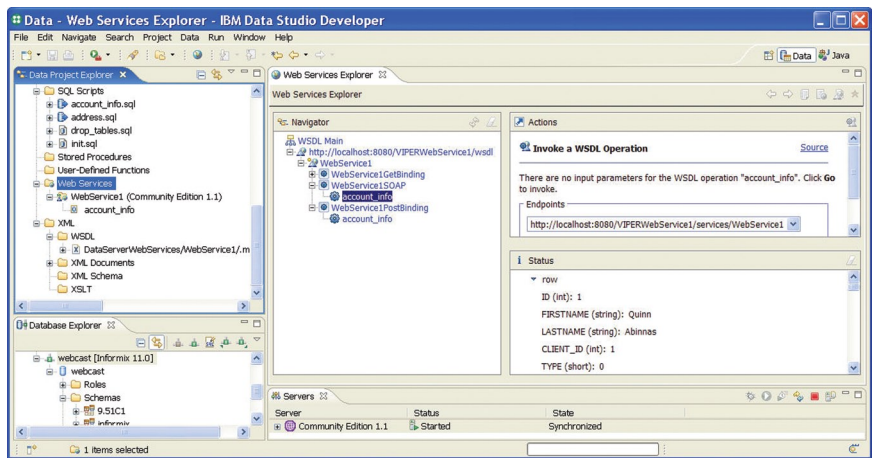


Figure 3: Data Studio can turn frequently used database operations into Web services for future reuse.

Accelerate and simplify Informix application development

- **Built on Eclipse**—Similar to other IBM Software Delivery Platform offerings, Data Studio is built on Eclipse technology. The Eclipse platform provides a foundation for constructing and running integrated end-to-end software development tools. Data Studio enables organizations to seamlessly integrate other aspects of software development tools to customize their IT development environment.

Speeding time to value and reducing costs with IDS and Data Studio

Developing applications on IDS with Data Studio speeds time to value and helps reduce costs by improving collaboration and creating an integrated database development and management environment for IDS and DB2. Using a single environment to perform both tasks saves developers time spent switching between tools, thereby reducing errors and boosting

productivity—Data Studio beta customers report productivity increases between 20 and 50 percent. The consistent user interface within Data Studio speeds development of new skills as developers incorporate other Eclipse-based tools to customize the environment.

IDS 11 offers access to new-generation platforms and programming languages, helps organizations bring applications to the Web and can reduce development costs by exposing reusable services to the enterprise in an SOA framework. It also delivers high availability to help reduce costly downtime and improve OLTP performance, which speeds access to information and can improve customer service.

Accelerated application development, better performance, new features, reduced administration costs and a single development tool—all available to

licensed IDS users at no charge and with technical support included. The decision to upgrade to the latest version of IDS and the new Data Studio couldn't be easier.

No-risk download available

Download IDS Developer Edition and Data Studio software at no charge at ibm.com/software/data/informix/downloads.html. Links to technical articles, support forums and product documentation can also be found at this site.

For more information

To learn more about IDS and Data Studio, contact your IBM representative or IBM Business Partner or visit ibm.com/informix



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