IBM Data Studio V1.2 FAQ

1. **What is Data Studio?** Data Studio refers both to a strategic data management environment as well as to a set of specifically branded offerings. The goal of the IBM Data Studio portfolio is to offer an integrated, modular data management environment to design, develop, deploy, operate, optimize and govern data, databases, and data-driven applications throughout the entire data management lifecycle. The broad vision encompasses variously branded offerings including Rational, Data Studio, Optim, and DB2. The Data Studio portfolio delivers not only powerful, stand-alone tools, but value-added integration (either in current product or in roadmaps) across the portfolio with common user interfaces, common components, and shared artifacts that increase organizational productivity and effectiveness while improving quality of service and reducing cost of ownership

2. **What databases and platforms does Data Studio Developer and Data Studio pureQuery Runtime support?** Data Studio Developer supports DB2 databases (Linux, UNIX, Windows, i5/OS, and z/OS) and IDS databases and Data Studio pureQuery Runtime can be deployed on Linux, UNIX, Windows, and z/OS platforms

3. **How does this relate to Java frameworks like Hibernate?** The Data Studio pureQuery technology can be used either as a complement to existing framework deployments or as an alternative to them. The pureQuery technology complements other frameworks providing client optimization to improve Java data access (improve performance, make response times stable, enhance security) and the pureQuery outline to speed problem isolation (relating problem SQL to the source application code). As an alternative, the Data Studio pureQuery technology provides the ease of use associated with object-relational mapping technologies, but with greater control over the generated SQL than persistence management frameworks like Hibernate, OpenJPA, or TopLink. So the pureQuery technology might be used instead of other frameworks where persistence management is not needed or where performance optimization requires greater control over the generated SQL.

4. **Does Data Studio Administrator replace DB2 Control Center for administration tasks?** No, Data Studio Administrator provides advanced change management capabilities for reducing outages or other application impacts due to missed dependencies or neglected tasks (e.g. forgetting to run RUNSTATS).

5. **How do you position Data Studio Administration Console and Data Studio Administrator?** The Data Studio Administration Console (available at no-charge to DB2 and IDS customers or as a non-warranted download to others) and Data Studio Administrator feature the two graphical UIs for administration tasks: 1) a Web UI for operations-oriented administration supporting the ability to monitor and respond from anywhere at any time and integration with Tivoli software for mix and match dashboards to provide a coherent view across the operations stack and 2) an Eclipse-based UI for rich object and command-centric administration that integrates with the Rational Software Development Platform and simplifies collaboration among business analysts, architects, developers, and administrators. Data Studio Administration Console provides entry-level health and availability monitoring for DB2 databases and queue-based replication monitoring while the Data Studio Administrator provides advanced change management function.

6. **Where can I get more information about Data Studio software?** You can get more information about Data Studio at http://ibm.com/software/data/studio and through the Data Studio community at http://ibm.com/developerworks/spaces/datastudio

7. **What are your plans to support Oracle, SQL Server, and other non-IBM databases?** While we will deliver first on DB2 and Informix Dynamic Server databases, we are building out the portfolio across Oracle, Microsoft, Sybase and leading open source databases. Rational Data Architect and Optim solutions already support a wide range of databases. The pureQuery technology, core to Data Studio Developer and Data Studio pureQuery Runtime, already supports heterogeneous databases in its role as the data

access layer for WebSphere sMash. We will continue to build out additional support for non-IBM databases in future releases.

8. **What new support is now available for Informix customers?** While no new support was announced for Informix in this announcement, Data Studio provides rich function for IDS customers including data design and modeling with Rational Data Architect, development using Data Studio Developer and pureQuery Runtime, as well as test data generation and data governance tools with the IBM Optim solutions. We are continuing to invest in IDS technology and will deliver more Data Studio function on IDS in the near future.

9. **Can you give me some examples of applications that could benefit from the new Client Optimization feature?** Most Java applications running against DB2 data can benefit from the Data Studio client optimization feature whether in throughput improvement, response time stability, enhanced security, improved problem isolation or other value.

10. **Where is the next focus for enhancing the broad Data Studio family?** Portfolio enhancements are planned across all phases of the lifecycle. High profile enhancements include model-based governance that enable governance policies to be defined in the information model (Rational Data Architect) and deployed to test generation or archival tools (Optim solutions) as well as end-to-end monitoring across the application stack to further enhance problem isolation and resolution.

11. **What's new in Data Studio V1.2?** Data Studio V1.2 offers three key enhancements over Data Studio V1.1. Details below and on DeveloperWorks – http://www.ibm.com/developerworks/db2/library/techarticle/dm-0807hayes/index.html

    Enhancement #1 Improved Java data access for DB2 without code changes
    - A new approach to performance optimization focuses on optimized database access from the database client rather than within the database engine.

    Enhancement #2 Data Studio pureQuery Runtime now supported on z/OS
    - In-house testing and client experience confirms that static SQL outperforms dynamic SQL in real-world environments. This can easily result in double-digit throughput improvement and, for z/OS, CPU savings you can take to the bank
    - In-house testing with the IRWW workload, an OLTP workload not particularly tailored to favor pureQuery, demonstrated a 35% CPU reduction over dynamic JDBC. See the detailed results in DB2 magazine.
    http://www.ibmdatabasemag.com/story/showArticle.jhtml?articleID=208802229

    Enhancement #3 Better problem isolation capabilities for application developers
    - Data Studio Developer 1.2 facilitates problem isolation by providing an outline that traces SQL statements back to the originating line in the source application
    - Data Studio Administrator 1.2 enhancements over the prior offering further improve DBA productivity, change management quality, impact analysis, and audit capabilities
    - Greater flexibility and power in viewing changes, migrating objects and authorization, and undoing changes
    - Enhanced database usability with visual flows and guided wizards
    - Enhanced impact analysis and audibility with integrated reporting