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Database Administrator
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PROFESSIONAL SUMMARY

DB2 LUW (Linux, Unix, and Windows)Experience: Over **15+** years of expertise in database administration, development, migration, and performance tuning for DB2 UDB EE and EEE (DPF) in high-volume OLTP and data warehouse environments.

- Installed and configured DB2 LUW in non-partitioned and partitioned (DPF) environments across development, testing, and production systems.
- Automated installation processes using shell scripts and Ansible to ensure consistency.
- Configured storage groups, buffer pools, and instance parameters for optimal performance.
- Deployed high-availability solutions such as HADR and TSA during installations.
- Integrated IBM tools like Data Studio and Optim Performance Manager for database management.
- Installed encryption modules and SSL/TLS for secure database transactions.
- Upgraded hundreds of databases from versions 9.7, 10.5, and 11.x to 11.5, minimizing downtime.
- Conducted pre-upgrade assessments and ensured compatibility across platforms.
- Migrated PowerHA clusters to HADR and TSA setups, reducing operational costs and enhancing availability.
- Automated upgrade tasks to streamline workflows and improve efficiency.
- Applied cumulative fix packs and documented upgrade processes, including failover/failback scenarios.
- Transitioned environments from AIX to RHEL for scalability and cost savings.
- Designed database architectures for high-transaction OLTP and large-scale data warehouses.
- Configured partitioning strategies in DPF environments to optimize workload distribution.
- Developed indexing and schema strategies to enhance query performance and storage efficiency.
- Designed HADR and TSA clusters for disaster recovery and high availability.
- Converted LOBs to inline structures, improving storage usage and performance.
- Designed CDC replication configurations for seamless real-time data synchronization.
- Applied security patches and updates to address vulnerabilities and ensure compliance.
- Coordinated with storage administrators to optimize database performance and storage usage.
- Analyzed performance metrics using db2pd, and db2exfmt for optimization.
- Configured buffer pools and balanced workloads in DPF environments for better throughput.
- Resolved performance issues in LOB-heavy tables by optimizing storage configurations.
- Conducted performance benchmarking and applied tuning recommendations before major rollouts.
- Developed custom scripts to monitor workload trends and proactively address performance issues.
- Automated daily maintenance tasks such as backups, reorganization, and database monitoring. Scheduled backups and recovery processes using Cron and Control-M, ensuring data integrity.

- Regularly performed RUNSTATS and REORG operations to maintain database health. Monitored performance using db2top, OPM, and custom scripts, resolving bottlenecks proactively.

DB2 z/OS Experience: 3 years of administering, designing, installations and upgrading DB2 databases in Sysplex mainframe environments.

- Installed, configured, and upgraded **DB2 z/OS v12** subsystems, associated tools, and software components, ensuring compatibility across system environments.
- Configured storage groups and buffer pools, fine-tuning **EDM pools, z/OS parameters**, and coupling facility structures for enhanced performance.
- Implemented workload prioritization using **DB2 Workload Manager (WLM)** and conducted performance analysis via tools like **IBM OMEGAMON** and **Db2 Performance Expert**.
- Developed and implemented **backup and recovery strategies** using **Image Copy, Incremental Backup, FlashCopy**, and DB2 Recovery Log Analysis, ensuring data consistency and rapid disaster recovery.
- Enforced encryption for data at rest and in transit, adhering to security standards such as **GDPR and SOX**, while managing users, roles, and permissions through **RACF**.
- Configured and maintained **GDPS and Db2 Data Sharing** groups to ensure high availability and scalability in Sysplex environments, validating disaster recovery procedures through DR drills.
- Automated routine tasks using **REXX scripts, JCL**, and scheduling tools, ensuring efficient execution of backups, reorganization, and monitoring activities.
- Monitored database health and performance using tools like **Db2 Query Monitor, Db2 Analytics Accelerator**, and in-memory metrics to proactively identify and resolve bottlenecks.
- Resolved critical incidents using utilities such as **DSN1COPY, DSN1PRNT**, and DB2 Diagnostics, performing detailed root-cause analyses.
- Leveraged advanced features of **Db2 z/OS v12**, including **PBR (Partition-By-Range) Relative Page Numbering, RESTful API support**, and SQL enhancements to modernize database environments.
- Maintained expertise in emerging technologies by staying updated on **fix packs, IBM recommendations**, and new Db2 features to continuously enhance system capabilities.
- Expertise in Job Control Language (JCL) and integrating mainframe data sources with modern platforms.
- Implementation of replication techniques using Q Replication, CDC, and InfoSphere Data Replication.
- Performance tuning and maintenance in mission-critical mainframe systems.

PostgreSQL Experience: 5 years as an EnterpriseDB/PostgreSQL DBA managing highly transactional workloads.

- Setting up and managing high availability using EFM and Streaming Replication.
- In-depth understanding of PostgreSQL internals and tuning parameters for optimal performance.
- Performance analysis and query optimization using tools like Explain Analyze and pg_advice_index.
- Set up asynchronous and synchronous replication for data backups and quick failover during outages.
- Created disaster recovery plans using Point-in-Time Recovery (PITR), WAL archiving, and regular backups to restore data during emergencies.

- Optimized slow queries using EXPLAIN/ANALYZE, improved indexing, and data partitioning for faster performance.
- Enhanced database efficiency by tuning memory usage, automating cleanup tasks (autovacuum), and managing connection pools.
- Troubleshoot and fixed issues like deadlocks, slow queries, and system bottlenecks to maintain smooth operations.

TECHNICAL SKILLS:

RDBMS & NoSQL: IBM DB2 UDB (7.x–11.5), Db2 z/OS v(9.x-12), VSAM, IMS-DB, MS SQL Server (2008–2022), PostgreSQL 12-15, Cassandra, Couchbase, MySQL

Cloud Platforms: Microsoft Azure, AWS, Nutanix

Database Tools: IBM Optim, Foglight, CDC, ERWin, DB2 Performance Expert, IBM Guardium, Protegrity

Scripting & Programming: Shell Scripting, Ansible, Perl, SQL, PL/SQL, Java, C++, COBOL, JCL.

Operating Systems: AIX, Linux, Windows Server, MVS, z/OS 2.4

Application Servers: WebSphere, PEGA, IBM BPM, Cognos

Key Technologies: HADR, TSA, Pacemaker, Q Replication, Data Replication, Encryption, and Security Audits

CERTIFICATIONS

- Microsoft Certified Azure Solution Architect Expert
- Microsoft Azure Fundamentals (AZ-300)
- IBM Certified DB2 Advanced Database Administration
- IBM Certified DB2 Warehouse v11.x
- MS SQL 2016 MSCA 70-764 (Administering SQL Database Infrastructure)
- Sun Certified Java Programmer
- IBM Certified in Test Process Model.

Education:

Bachelors of Technology in Electrical & Electronics Engineering during 1994-1998 from Sri Venkateshwara University, India.

PROFESSIONAL EXPERIENCE

Sep 2023 – Till Date Database Administrator

Client: USAA

Location: Remote

Responsibilities:

- Designed, documented, and implemented the migration of **DB2 to PostgreSQL** on **Linux**, setting up **High Availability** using **Streaming Replication** and **Enterprise Failover Manager (EFM 2.1)**.
- Designed, implemented, and managed **HADR (High Availability Disaster Recovery)** solutions across Linux and Unix platforms to ensure high availability and minimal downtime.
- Configured **DB2 HADR with TSA (Tivoli System Automation)** for automated failover and disaster recovery, optimizing system uptime and reducing manual intervention.

- Migrated traditional **PowerHA clusters** to **HADR setups** with TSA, documenting strategies and failover scenarios for Linux & Unix.
- Proactively monitored HADR status using commands like `db2pd -hadr` and automated alerting for synchronization issues.
- Managed and optimized DB2 z/OS databases on mainframe systems, ensuring high availability, scalability, and performance.
- Designed and maintained Job Control Language (JCL) scripts for efficient automation of database tasks, backups, and batch processing.
- Integrated mainframe DB2 data sources into modern platforms by utilizing replication tools like IBM InfoSphere or Q Replication.
- Performed database tuning, indexing, and query optimization on DB2 z/OS to improve processing efficiency and reduce resource utilization.
- Implemented data migration and synchronization processes to enable seamless interoperability between legacy mainframe systems and modern application
- Conducted failover and failback testing to validate disaster recovery procedures and ensure application continuity.
- Collaborated with cross-functional teams to plan database migrations from **DB2 to PostgreSQL** and **Couchbase**, ensuring compatibility and high performance across platforms.
- Installed and maintained database servers and tools like **Optim Performance Manager** on **Linux, Unix, and Windows**, providing continuous support for development and production environments.
- Configured **Streaming Replication** for PostgreSQL on **Linux** and **Windows**, ensuring zero data loss and minimal downtime during failovers.
- Monitored **AWS RDS PostgreSQL** and **EC2-hosted DB2 LUW** instances for performance bottlenecks, performing optimizations to meet SLA requirements.
- Tuned **HADR synchronization modes (SYNC, NEARSYNC, ASYNC)** to meet performance and recovery objectives.
- Automated backup strategies for HADR environments, integrating snapshots and log backups for compliance.
- Set up **Q Replication** between cDB2 Production and DR environments on Linux, ensuring data consistency and availability.
- Monitored and tuned application performance across Linux ensuring optimal resource utilization.
- Created and maintained **DB2 objects** (schemas, tablespaces, and indexes) on **Linux, Unix, and Windows** platforms.
- Migrated databases from **RHEL7.x to RHEL9.x**.
- Wrote advanced scripts on **Linux, Unix, and Windows** to automate database failover tasks, such as starting CDC services.
- Set up asynchronous and synchronous replication for data backups and quick failover during outages.
- Created disaster recovery plans using Point-in-Time Recovery (PITR), WAL archiving, and regular backups to restore data during emergencies.
- Optimized slow queries using EXPLAIN/ANALYZE, improved indexing, and data partitioning for faster performance.
- Built and set up PostgreSQL databases with replication (streaming, logical, physical), partitioning, and sharding to handle large-scale data efficiently.
- Configured high-availability tools like Patroni, PgBouncer, and Pgpool-II to minimize downtime and ensure continuous operation.

- Enhanced database efficiency by tuning memory usage, automating cleanup tasks (autovacuum), and managing connection pools.
- Troubleshoot and fixed issues like deadlocks, slow queries, and system bottlenecks to maintain smooth operations.
- Performed regular maintenance tasks like vacuuming, reindexing, and managing table partitions
- Documented migration strategies, cluster conversions, and performance benchmarks for Linux, Unix, and Windows, enabling operational excellence.

Environment: DB2 v11.1/11.5 on LUW and DB2 v11/12 on z/OS 2.4, SQL Server 2019/2022, Couchbase 6.x, Cassandra, Azure, Control-M, Shell, Ansible.

May 2022 – Sep 2023 Database Administrator

Client: TRUIST

Location: Atlanta US (Hybrid model)

Responsibilities:

- Set up **Q Replication** between cDB2 Production and DR environments on Linux, ensuring data consistency and availability.
- Monitored and tuned application performance across Linux ensuring optimal resource utilization.
- Created and maintained **DB2 objects** (schemas, tablespaces, and indexes) on **Linux, Unix, and Windows** platforms.
- Designed, implemented, and managed **HADR (High Availability Disaster Recovery)** solutions across Linux and Unix platforms to ensure high availability and minimal downtime.
- Configured **DB2 HADR with TSA (Tivoli System Automation)** for automated failover and disaster recovery, optimizing system uptime and reducing manual intervention.
- Proactively monitored HADR status using commands like db2pd -hadr and automated alerting for synchronization issues.
- Deployed and upgraded DB2 z/OS v12 databases along with associated tools, ensuring seamless integration with existing systems.
- Configured storage groups, optimized buffer pools, and adjusted z/OS parameters to enhance database performance.
- Leveraged DB2 Workload Manager (WLM) to optimize task prioritization and utilized tools like IBM OMEGAMON and Db2 Performance Expert for performance monitoring and analysis.
- Designed and executed robust backup and recovery strategies, including Image Copy, Incremental Backup, and FlashCopy, to maintain data integrity and support rapid disaster recovery.
- Built and set up PostgreSQL databases with replication (streaming, logical, physical), partitioning, and sharding to handle large-scale data efficiently.
- Configured high-availability tools like Patroni, PgBouncer, and Pgpool-II to minimize downtime and ensure continuous operation.
- Set up asynchronous and synchronous replication for data backups and quick failover during outages.
- Created disaster recovery plans using Point-in-Time Recovery (PITR), WAL archiving, and regular backups to restore data during emergencies.
- Optimized slow queries using EXPLAIN/ANALYZE, improved indexing, and data partitioning for faster performance.

- Enhanced database efficiency by tuning memory usage, automating cleanup tasks (autovacuum), and managing connection pools.
- Troubleshoot and fixed issues like deadlocks, slow queries, and system bottlenecks to maintain smooth operations.
- Performed regular maintenance tasks like vacuuming, reindexing, and managing table partitions
- Implemented encryption for data in transit and at rest to comply with industry standards such as GDPR and SOX, and managed user permissions using RACF.
- Set up and managed GDPS and Db2 Data Sharing environments to ensure system scalability and continuous availability.
- Conducted failover and failback testing to validate disaster recovery procedures and ensure application continuity.
- Tuned **HADR synchronization modes (SYNC, NEARSYNC, ASYNC)** to meet performance and recovery objectives.
- Automated backup strategies for HADR environments, integrating snapshots and log backups for compliance.
- Managed and optimized DB2 z/OS databases on mainframe systems, ensuring high availability, scalability, and performance.
- Designed and maintained Job Control Language (JCL) scripts for efficient automation of database tasks, backups, and batch processing.
- Integrated mainframe DB2 data sources into modern platforms by utilizing replication tools like IBM InfoSphere or Q Replication.
- Performed database tuning, indexing, and query optimization on DB2 z/OS to improve processing efficiency and reduce resource utilization.
- Implemented data migration and synchronization processes to enable seamless interoperability between legacy mainframe systems and modern application
- Upgraded databases from Db2v10.5 to Db2v11.5 in Linux, Unix and Windows.
- Wrote advanced scripts on **Linux, Unix, and Windows** to automate database failover tasks, such as starting CDC services.
- Improved LOB object performance through efficient global mirroring configuration on **Linux, Unix, and Windows**.
- Converted LOBs to inline storage to enhance performance and achieve compression benefits across environments.
- Used db2top and OPM tools to monitor performance metrics and provided optimization recommendations for Linux & Unix.
- Migrated data across data centers using **HPU** and db_migration tools, ensuring seamless transfer of large datasets on Linux & Unix.
- Implemented **Protegrity-based tokenization** to secure sensitive data and optimize performance for large-scale datasets in Linux, Unix & Windows.
- Deployed and configured **IBM InfoSphere DataStage (11.7.1)** on Linux, Unix, and Windows, integrating Flow Designer and real-time dashboards.
- Automated data refresh scripts to securely migrate PII columns using **IBM Optim** and **Delphix** on Linux, Unix, and Windows.
- Utilized **IBM Guardium** for compliance auditing and security monitoring on Linux, Unix, and Windows.
- Documented migration strategies, cluster conversions, and performance benchmarks for Linux, Unix, and Windows, enabling operational excellence.

Environment: DB2v10.5/11.5 on LUW, DB2 z/OS v11,HADR, TSM, Docker, DataStage, IBM CDC, IIDR 10.2.1, Shell, Q Replication, High Performance Unload (HPU) tool.

Mar 2016 – Dec 2021 Database Administrator

Client: National Accounts Service Company (NASCO)

Location: Atlanta US

Responsibilities:

- Created and maintained instances, databases, tablespaces, and database objects across development, model, regression, and production environments on Linux, Unix (AIX), and Windows platforms.
- Responsible for all aspects of database administration, including development, application support, production support, and system DBA tasks for non-partitioned and partitioned (DPF) environments across Linux, Unix, and Windows.
- Tuned database systems on Linux to optimize ETL (Informatica) and reporting (Cognos) performance for multi-terabyte databases under SLA.
- Designed, developed, and maintained NASCO's Ncompass and Navigator DB2 databases for various BCBS plans across the U.S.
- Installed and configured IBM InfoSphere Data Replication (IIDR) for seamless integration with DB2 database server on Linux and Unix.
- Worked with storage administrators to enhance the performance of LOB objects using global mirroring and standardized configurations on Linux and Unix.
- Converted LOBs to inline storage for improved performance and storage efficiency across environments.
- Used db2top and OPM on Linux, Unix, and Windows to monitor performance metrics, analyze results, and provide recommendations.
- Installed and upgraded DB2 z/OS v12 databases and tools, ensuring smooth integration with existing infrastructure.
- Developed and implemented comprehensive backup and recovery solutions, including Image Copy, Incremental Backup, and FlashCopy, to ensure data consistency and quick recovery during outages.
- Secured data both in transit and at rest by implementing encryption protocols to meet GDPR and SOX compliance standards, while managing access controls with RACF.
- Configured storage groups, tuned buffer pools, and adjusted z/OS settings to optimize overall database efficiency.
- Configured and maintained GDPS and Db2 Data Sharing setups to deliver high availability and enable system scalability for enterprise operations.
- Developed and implemented processes and scripts on Linux, Unix, and Windows to automate day-to-day database maintenance activities such as runstats and reorgs.
- Written scripts for tasks like starting CDC services during failovers and extracting data to/from XML and CSV formats for downstream applications, ensuring compatibility with Linux, Unix environments.
- Managed and optimized DB2 z/OS databases on mainframe systems, ensuring high availability, scalability, and performance.
- Designed and maintained Job Control Language (JCL) scripts for efficient automation of database tasks, backups, and batch processing.

- Integrated mainframe DB2 data sources into modern platforms by utilizing replication tools like IBM InfoSphere or Q Replication.
- Performed database tuning, indexing, and query optimization on DB2 z/OS to improve processing efficiency and reduce resource utilization.
- Implemented data migration and synchronization processes to enable seamless interoperability between legacy mainframe systems and modern application
- Designed and implemented HADR setups with TSA clusters on Linux and Unix, converting AIX PowerHA clusters to DB2 HADR to reduce costs while maintaining high availability and disaster recovery.
- Documented strategies and failover/failback scenarios for PowerHA to HADR and TSA conversions on Linux and Unix.
- Migrated databases from AIX 7.2 to RedHat Linux.
- Executed regular index reorganizations and rebuilds to enhance database performance.
- Administered disaster recovery plans and business continuity strategies to safeguard critical data.
- Led database upgrades from DB2 V9.7 to V10.5 and from V10.5 to V11.5, upgrading hundreds of databases on Linux, Unix, and Windows platforms.
- Created, modified, and managed CDC subscription sets using CDC Management Console on Linux and Unix, including performing ad hoc refreshes during deployments.
- Used federated cursor loads and DB2 Cross Loader utilities to move data across DB2 family data sources in Linux, Unix, and Windows environments.
- Performed regular backup, restore, and redirected restore commands for environment setup and maintenance on Linux, Unix, and Windows.
- Customized DB2 Workload Manager configurations on Linux and Unix to control query flow and set thresholds for resource-intensive processes.
- Proactively monitored file systems and storage on Linux, Unix, and Windows, submitting RFS requests for additional storage based on data volume projections.
- Played a crucial role in the data team, collaborating with data architects, ETL developers, and analysts to resolve design and performance issues across Linux, Unix, and Windows systems.
- Led technical PowerPoint presentations to educate teams on new DB2 features and implementation strategies for Linux, Unix, and Windows environments.
- Familiarity with PEGA products to enhance database object and query performance on Linux, Unix platforms.
- Used change management processes for implementing updates and incident management to troubleshoot and resolve issues on Linux, Unix, and Windows.
- Documented processes, strategies, and configurations, including automation scripts, HADR setups, and performance tuning practices, applicable across Linux, Unix, and Windows environments.

Environment: DB2 LUW v11.1.4.6/v11.5.7, DB2 z/OS v9,10,11,RHEL6.x/7.x/8.x, IBM Optim Performance Manager 5.2, Workload Manager, HADR, TSM, AQT, IBM Data Architect, PEGA V7.x, 8.x, AIX 7.x, Change Data Capture (CDC), Q Replication, InfoSphere Data Replication 10.2.1, Shell Scripting.

Nov 2010 – Feb 2016

Database Administrator

Client: United Parcel Services (UPS)

Location: Mahwah, NJ

Responsibilities:

- Configured and managed **HADR** and **TSA clusters** for **DB2**, automating failover processes using the db2haicu utility across **Linux, Unix, and Windows** environments.
- Installed and customized **DB2 Performance Expert** on **Linux, Unix, and Windows**, periodically taking snapshots and tuning the database for optimal performance.
- Proactively monitored **PostgreSQL performance** by analyzing queries with pg_stat, tuning inefficient queries, adding indexes, and rewriting queries as needed on **Linux** platforms.
- Automated performance report generation using **DB2 Performance Expert** and **Optim Performance Manager**, ensuring continuous performance monitoring and customer satisfaction.
- Designed and developed logical and physical data models for the **Plan Management Portal** and **Customer Decision Support System**, collaborating with business analysts and architects to ensure robust database structures on **Linux, Unix, and Windows**.
- Installed and configured **Optim Test Data Management** on **Linux, Unix, and Windows** to mask sensitive production data for testing and lower environments.
- Tuned queries in performance testing environments on **Linux, Unix, and Windows**, ensuring proper indexing and memory allocation for sorting operations before production deployment.
- Developed and deployed database scripts for **DB2** and **Couchbase** on **Linux** identifying inefficient queries and improving performance through optimizations.
- Implemented **DB2 Workload Manager (WLM)** across **Linux, Unix, and Windows** to flag query violations, performed root cause analysis, and tuned queries using explain plans and Index Advisors.
- Optimized queries causing sort overflows by creating optimal indexes and improving sorting performance in production environments across **Linux, Unix, and Windows**.
- Supported monthly application releases by deploying database scripts in production and worked with **AWS resources** to scale database infrastructure dynamically based on performance requirements.
- Automated performance monitoring and alerts on **Linux, Unix, and Windows** using scripts to track query performance and detect anomalies in real time.
- Configured **Streaming Replication** for PostgreSQL on **Linux** and **Windows**, ensuring zero data loss and minimal downtime during failovers.
- Designed database capacity plans to handle growth in multi-terabyte datasets on **Linux, Unix, and Windows**.
- Secured sensitive data during migrations and testing phases using masking and encryption techniques with **Optim** and PostgreSQL tools.
- Documented all configurations, migration strategies, and optimization techniques to ensure reproducibility and operational efficiency across **Linux, Unix, and Windows** platforms.

Environment :EnterpriseDB/PostgreSQL 9.x, Streaming Replication, EFM 2.x, BART, PEM, pgAdmin III/IV, Navicat for PostgreSQL, pgPool II, Couchbase 6.6.X/6.5, DB2 V10.5 FP 4, DB2 V10.1, Db2 z/OS, SQL Server 2008 R2/2012, Azure, Amazon Cloud EC2, EBS Volumes, Security Groups.

Jul 2006 – Nov 2010

Database Administrator

Client: IBM US

Location: Armonk, NY

Responsibilities:

As a Database Administrator handling multiple projects and responsible for Analysis, design, development, testing and implementation of customized DB2 solutions for new implementations and upgrades for and responsible for the below activities.

- Design of HADR multiple standby Replication and setup in Db2 Version 10.5,10.1
- Performance monitoring & tuning of applications
- DB2 objects creation and maintenance
- Migration&Fixpack upgradation of DB2 v9.5/9.7 to Db2v10.1/10.5
- Bind the new DB2 Connect Server Mainframe Packages into the DSP Production Sub-Systems using the Windows x 86 Platforms
- Scheduling backup jobs via ESP job scheduler.
- Monitoring the backup jobs, reorg/runstat status using Cronjob settings and ESP Scheduler.
- Field Certification for all supported software and application upgrades
- Develop install procedures for upcoming fix packs / versions include all supported OS levels.
- Automating & Maintenance activities like Backups, Run stats, and Reorgs, Diag Logs through shell scripts, crons and ESP job scheduling tool.
- Database promotes coordination with Developers i.e. Packaging scripts, version control & Post Promote support.
- Restoration of databases online, offline databases.
- Space management i.e. disk space & DMS Table spaces
- Replication configuration, Monitoring, Troubleshooting & Maintenance
- Creation of Development, Test, and Performance (stress) environments
- Ability to lead module/team/project and Improvement in client relationship.
- Linux Install Gateways for all products (Connect Personal Edition, Db2 Connect, Db2 Runtime Client, DB2 Workgroup Server)
- Creating Tivoli Package for the following products Testing Tivoli, DB2 Runtime
- Field Certification for all supported software and application upgrades

Environment :DB2 V9.7 fp 6, Linux 2.6, DB Artisan 9.1, IBM Data Studio, IBM Process Server