

DB2 Optimised for SAP Solutions – Cheat Sheet for SAP & Partners

DB2 for SAP: DB2 – Optimised for SAP Solutions
DB2 is the only database that is optimised for SAP Solutions jointly by both IBM & SAP.

- 7 Dec 1999: SAP's strategic decision to make DB2 as their primary database platform replacing Oracle.
- 26 Apr 2005: IBM & SAP jointly announced DB2 v8.2.2 Optimised for SAP. The 1st DB2 database that is optimised for SAP solutions benefits the customers with more enhanced performance at even lower cost.
- 18 May 2006: SAP announced that DB2 v9 (aka Viper) is "a highly recommended database". which is the 2nd release of our strategic collaboration - "DB2 - Optimised for SAP Solutions".
- 31 Aug 2006: SAP announced availability for DB2 9.

Unique Proposition

SAP DB2 Alliance – An Intimate Partnership Spanning > 30 years

- ❖ DB2 is the ONLY database that is Optimized for SAP Solutions by SAP and DB2 teams jointly.
- ❖ DB2 - the Primary Database for SAP both R&D and Production.
- ❖ SAP runs SAP on DB2. SAP has DB2 deployed for ~570 SAP Internal Development and Production Systems
- ❖ IBM runs SAP on DB2. IBM is one of SAP largest installs.
- ❖ Joint SAP & IBM Integrated Teams Dedicated to Development and Support for DB2/SAP. (Only database vendor with SAP.)
- ❖ International Competency Center Onsite at SAP HQ, Walldorf, Germany

Lowest Total Cost of Ownership (TCO)

- ❖ Lower Initial License and Maintenance Fee
- ❖ Simplified configuration and autonomic administration: DB2 is pre-configured for SAP solutions. No need to acquire additional 3rd party tools to manage SAP environment.
- ❖ Require minimal SAP/DB2 DBA skills to manage DB2/SAP environment via DB6 Cockpit - an integrated SAP/DB2 DBA cockpit within the SAP environment - jointly developed by SAP & DB2. (Existing SAP DBA can acquire DB2/SAP skills within 1 week thru SAP Standard course.)

Superior Support Structure

- ❖ One Stop Shop for Problem Resolution and SAP Customer Support. Only DB2 adheres to SAP 5+1+2 Support policy.
- ❖ WW 24x7 SAP DB2 Defect Support via SAP Hotline
- ❖ IBM DB2 Development Team for SAP onsite at SAP Headquarters

Leading Performance

- ❖ DB2 tops all key SAP Benchmarks (2-Tier SD, 3-Tier SD, 3-Tier BW) as well as industry-based TPC-C & TPC-H benchmarks.
- ❖ Most Scalable Database From PDA to Enterprise Server

Leading Database Technology Provides a Robust Infrastructure

- ❖ SAP adopted DB2 DPF feature providing parallel DB for SAP NW BI, SAP APO, SAP SEM, for Superior Scalability and Performance.

- ❖ Compression feature certified by SAP provides huge savings on cost of managing SAP data and improve database I/O thru'put; hence better response/performance to user.
- ❖ Highly Available Solution – DB2 HADR certified by SAP is included Free-of-charge under SAP DB2 OEM license.

Broadest Platform Support

- ❖ AIX, OS/400, z/OS, Windows, Solaris, HP-UX and Linux

Competing Against Oracle

- DB2 Optimised for SAP: Only database optimised
- Price: DB2 is 38% cheaper than Oracle database licensing and maintenance support (under SAP OEM).
- Performance: On an average, DB2 performs 25% faster than Oracle in the existing infrastructure. DB2 using 32-CPU performed 68% better than Oracle using 64-CPU in the SAP 3-tier SD benchmark.
- Compression: DB2 v9 can compressed SAP data by 50%-75% vs. Oracle which can only achieved 10%. Resulting in DB2 is 2.4 times smaller than Oracle. DB2 Compression is free when purchase thru SAP OEM.
- DB6 Cockpit: Jointly developed DBA Cockpit to manage the database environment within SAP. No need to get out of SAP and into the OS/database level to admin the database for Oracle.
- High Availability Disaster Recovery: Free of charge when purchased thru SAP OEM.
- SAP NetWeaver BI embraced DB2 DPF natively to deliver scalability. Also uses DB2 Multi-Dimension Clustering features for better BW performance.
- References:
 - (a) Nestle: SAP Largest customer migrated from SAP/Oracle/HP to SAP/DB2/pSeries.
 - (b) Rku.it: SAP Germany hosting Partner migrated from SAP/Oracle to SAP/DB2 for better TCO & performance.
 - (c) Austrian Railways: Migrated from Oracle to SAP/DB2 achieving 11-seconds failover with HADR vs. 30-mins with Oracle RAC.

Competing Against SQL Server

- Price: While DB2 and SQL/Server pricing is the same thru SAP OEM, DB2 comes inclusive with lots more features (like Compression, Online Re-org, etc) that SQL/Server does not have.
- Performance: For all the 2-Tier and 3-Tier SD benchmarks, DB2 has taken the Number 1 position. SQL/Server generally takes 3rd place. DB2 using 32-CPU performed at least 70% better than SQL Server using 64-CPU in the SAP 3-tier SD benchmark.
- Compression: SQL Server does NOT have compression technology. DB2, when compressed, is 3.6 times smaller than SQL Server.

- DB6 Cockpit: Jointly developed DBA Cockpit to manage the database environment within SAP. No need to get out of SAP and into the OS/database level to admin the database.
- DB2 Online database Re-org within DB6 Cockpit: No need to bring down database to do periodic re-org which is a must for SQL Server maintenance.
- High Availability Disaster Recovery: Free of charge when purchased thru SAP OEM.
- References:
 - (a) Central Michigan University: Migrated from SAP/SQL Server to SAP/DB2 because of performance, scalability & availability.
 - (b) AGCO Fendt: World-wide manufacturer & distributor of agricultural equipment after migrated to SAP/DB2 experienced "stable, easy to manage, flexible & very cost-effective".

Why DB2 matters to you?

- SAP Sales:
 - (a) SAP Sales is incented 2.5 times the DB2 commission for selling SAP/DB2.
 - (b) No commission for proposing Oracle/SAP and less commission for SQL Server/SAP.
- SAP Partners:
 - (a) DB2/SAP is 38% cheaper than Oracle/SAP; hence making the total SAP Solution cheaper for the customer.
 - (b) Optimised DB2/SAP's superior technology and performance means cost saving for infrastructure; hence more margin for SAP Partners
 - (c) Oracle & Microsoft will not help you drive SAP business.

Pricing Information

Database (SAP OEM)	% of SAV
DB2 (include High Availability & Disaster Recovery; Compression features)	8%
SQL/Server database only	8%
Oracle database only	11%
Oracle RAC (add-on)	3%

- DB2 License is 38% less than Oracle database.
- DB2 License is 75% less than Oracle database + RAC add-on.
- SQL/Server is also priced at 8% of SAV. But it's NOT on par on features with DB2 (no Compression feature, no High Availability & Disaster Recovery feature). Needs 3rd parties tools.
- SAP Maintenance charge is 17% on the database OEM license; as such, DB2 is also cheaper than Oracle.