MODIFIABLE RFP TEMPLATE & VENDOR Q&A RUBRIC | VNA-RFP-026 | Database X to Database Y

Request for Proposals (RFP): IBM Db2 for z/OS, iSeries (AS/400) & Db2 LUW Migration to Oracle Database 23ai & Exadata

Instructions for RFP Author: This template is structured so your IT, Architecture, and Procurement teams can issue a rigorous, apples-to-apples Request for Proposals. Customize the bracketed [Modifiable] fields below or use the companion .md file on the solution portal.

1. Issuing Organization & Procurement Schedule (Modifiable Fields)

RFP Field / Milestone	Modifiable Entry / Target Value
Issuing Organization & Sponsor	[Insert Legal Organization Name, Executive Sponsor & Primary Contact Email]
Project Scope Summary	Transition from IBM Db2 for z/OS (Mainframe), Db2 for i (AS/400), Db2 LUW 11.5, SQL PL, EBCDIC, JCL/COBOL to Oracle Database 23ai on OCI / Exadata / ODA X11, PL/SQL Packages, GoldenGate Db2 CDC
RFP Issue / Q&A; / Proposal Due Dates	[Issue: YYYY-MM-DD] | [Vendor Questions Due: +14 Days] | [Proposals Due: +30 Days]
Target Contract Type	Fixed-Price Milestone Deliverables with Automated Parity & Cutover Acceptance Gates

2. Mandatory Technical Scope of Work (Modifiable Requirements)

[REQ-ARCH-01] Automated DDL & Data Type Mapping: Convert Db2 TABLESPACES, GRAPHIC/VARGRAPHIC, DECFLOAT, and packed decimals into Oracle 23ai tablespaces, NUMBER, and UTF-8 columns with linguistic binary sort (`NLS_SORT=EBCDIC`) where legacy sort order is required.

[REQ-ARCH-02] SQL PL & Embedded SQL Translation: Parse Db2 SQL PL procedures, DB2triggers, and Pro*COBOL / embedded SQL cursor loops into compiled Oracle 23ai PL/SQL packages.

[REQ-ARCH-03] Batch & UI Modernization: Convert JCL/SORT batch steps into high-speed Oracle bulk PL/SQL (`FORALL`) and `DBMS_SCHEDULER` chains, while replacing CICS / 5250 green screens with Oracle APEX 24.2.

[REQ-ARCH-04] Real-Time Coexistence: Stream live transactions from Db2 z/OS (IFI 306 log read) or Db2 LUW into Oracle 23ai via Oracle GoldenGate for parallel validation before final cutover.

3. Component Conversion & Acceptance Matrix

Legacy Artifact / Workload	Required Target Architecture	Engineering Method & Acceptance Gate
Db2 SQL PL Stored Procedures & UDFs	Oracle 23ai PL/SQL Packages & Pipelined Functions	AST translation of DECLARE CURSOR WITH HOLD, SQLCODE handlers, and DGTT temp tables
EBCDIC Character Data & Collating Sequence	Oracle AL32UTF8 + NLS_SORT=EBCDIC Functional Indexes	Transcode CCSID 37/500/1140 to UTF-8 while preserving exact mainframe ORDER BY behavior
COBOL Copybooks & Packed Decimal (COMP-3)	Oracle 23ai NUMBER(p,s) + External Tables / SQL*Loader	Unpack binary COMP/COMP-3 fields with automated precision and checksum reconciliation
CICS BMS Maps & AS/400 5250 Display Files (DSPF)	Oracle APEX 24.2 Keyboard-Driven Web Forms & Grids	Preserve sub-second hotkey data-entry ergonomics inside modern browser pages
JCL / DFSORT Overnight Batch Streams	DBMS_SCHEDULER Chains + Parallel SQL / PL/SQL	Replace multi-hour tape/disk sort steps with in-database parallel hash joins

4. Mandatory Vendor Q&A; Questionnaire & Evaluation Benchmark Key

Bidders must answer each technical question below. Evaluation committee members can compare vendor answers directly against the Reference Benchmark Key:

Vendor Question 1: How do you handle mainframe applications that rely on EBCDIC sort order (where numbers sort after letters)? *[Score: ___ / 10]*

Reference Evaluation Benchmark: In EBCDIC, uppercase letters sort before digits (0-9), whereas in ASCII/UTF-8 digits sort before letters. For queries and batch programs that depend on mainframe sort order, we apply Oracle linguistic sorting (NLSSORT with EBCDIC) and function-based indexes so data is stored cleanly in UTF-8 while returning identical sort order.

Vendor Question 2: Can we migrate Db2 to Oracle in phases while CICS or COBOL applications are still running? *[Score: ___ / 10]*

Reference Evaluation Benchmark: Yes. Using Oracle GoldenGate for Db2 (supporting z/OS, iSeries journals, and LUW logs), we maintain sub-second bi-directional or uni-directional replication between Db2 and Oracle 23ai so workloads can cut over domain by domain.

Vendor Question 3: How do you rationalize report/query fan-out and guarantee 100% customer code & data ownership? *[Score: ___ / 10]*

Reference Evaluation Benchmark: Vendor must demonstrate AST SQL clustering to collapse cloned queries into governed core views with runtime/AI-inference filters, and deliver 100% customer-owned SQL, PL/SQL, APEX, or cloud code with zero proprietary runtime lock-in.

5. Commercial Milestone Pricing & Evaluation Weighting (Modifiable)

Phase / Deliverable Gate	Required Acceptance Output	Bidder Fixed Fee	Eval Weight
Phase 0: AST Discovery & Blueprint	Complete code/schema AST inventory, dead-code manifest & core SQL fan-out map	$ [Insert]	20%
Phase 1: Core Schema & Logic Uplift	Target cloud/DB provisioning, automated DDL/code conversion & unit tests	$ [Insert]	30%
Phase 2: UI, Reports & UAT	Modernized UI/portals, runtime/AOP reports, security VPD/SSO & UAT sign-off	$ [Insert]	30%
Phase 3: Cutover & Hypercare	Zero-downtime cutover, row/hash reconciliation & 30-day production warranty	$ [Insert]	20%