

Rubric Prestige Cars Normalized Database Group Project

This revised rubric increases granularity by breaking down the "Database Design and Implementation" category into sub-categories based on the specified deliverables. Each sub-category focuses on a distinct aspect, with points redistributed from the original 30 to allow finer evaluation. The total remains 100 points. Performance levels are updated to: **Reasonable** (70-100% of points: comprehensive to solid work, minor gaps allowable) and **Inadequate** (0-69% of points: basic to incomplete work with issues/omissions). Assessments are holistic, with individual contributions noted (e.g., via to-do lists, narration).

Category	Sub-Category	Criteria	Reasonable (70-100% Points)	Inadequate (0-69% Points)	Points Possible
Database Design and Implementation	Normalization and Transformation	- Accurate transformation of Prestige Cars dataset to fully normalized (3NF+) logical/physical design, including adjustments to columns/tables.	Comprehensive to solid transformation with thorough normalization and justified adjustments; demonstrates deep to adequate understanding.	Basic to incomplete normalization with superficial or erroneous adjustments.	5
	UDTs and FQDNs	- Proper use of UDTs with FQDNs (e.g., SchemaName.TypeName), reuse across tables, defaults, CHECK constraints, and business meaning encoded (e.g., via object comments, cross-platform consistency).	Innovative to effective UDT/FQDN implementation, reuse, and encoding; minor gaps allowable.	Superficial or missing UDT integration, reuse, or constraints.	5
	FQTNs Implementation	- Implementation of FQTNs for system structure (e.g., HumanResources.Employee).	Thorough to adequate FQTN application enhancing structure; minor inconsistencies allowable.	Incomplete or irrelevant FQTN use.	3
	Workflow Table and Key Handling	- Addition of Workflow table and handling of required/optional columns, unique/candidate keys, business rule validations.	Comprehensive to solid addition and handling, with clear validations; minor omissions allowable.	Basic to missing Workflow elements or poor key/validation handling.	4
	Data Integrity Enforcement	- Enforcement of high data integrity via constraints (CHECK, FOREIGN KEY), defaults aligned to domains, reduction to two-valued logic (e.g., ReviewRow column, COALESCE in ELT, CASE for flagging).	Effective to strong integrity measures with full logic reduction; minor flaws allowable.	Inadequate constraints, defaults, or logic handling.	5
	Views and ITVs	- Creation of views and ITVs for clean data presentation, reusable logic, supporting reporting/analytics/quality.	Innovative to solid creation supporting multiple uses; minor gaps allowable.	Basic or incomplete views/ITVs with limited functionality.	4

Category	Sub-Category	Criteria	Reasonable (70-100% Points)	Inadequate (0- 69% Points)	Points Possible
	PDM/ERD Creation	- Creation of PDM/ERD in SSMS, isolating subject areas, showing relationships/cardinality, and UDTs.	Error-free to clear PDM/ERD with full details; minor clarity issues allowable.	Unclear, incomplete, or missing PDM/ERD elements.	4
Metadata Handling and Export	-	- Export of metadata to Excel using Utils.uvw_FindColumnDefinitionPlusDefaultAndCheckConstraint. - Review and logical transformations affecting ColumnName, Ordinal Position, DataType, IsNullable, UDT, Default, Constraint, Foreign Key. - Integration of insights from provided readings (e.g., data governance articles).	Thorough to adequate export with detailed comparisons and governance integration; minor inconsistencies allowable.	Basic to incomplete export with minimal transformations.	10
Presentation and Narration	-	- Development of voice-annotated PowerPoint (min 25 min, exported as MP4) explaining design strategy, project lifecycle, and non-technical terms. - Detailed walkthrough of design (e.g., PDM, anomalies/cleansing, naming conventions, UDT hierarchy/reuse, constraints purpose, index decisions for PKs/alternates). - Coverage of data cleansing (anomalies, corrections, UDT/defaults role, two-valued logic statement), ELT pipeline reliability. - All group members contribute with clearly assigned tasks.	Engaging to solid presentation with clear visuals and narration showing contributions; minor issues allowable.	Basic to incomplete presentation or narration.	25
Team Collaboration and Project Management	-	- Effective collaboration, as shown in to-do list Excel (tracking % done, phases, start/original/revised due dates, days, revision notes per member). - Project manager submits agreed tables; timely management. - Demonstration of NACE Competencies (e.g., Equity & Inclusion, Communication, Critical Thinking, Professionalism, Technology, Leadership, Teamwork).	Excellent to good tracking and competency integration; minor inconsistencies allowable.	Poor collaboration or documentation.	15
Innovation and Additional Enhancements	-	- Additions enhancing the project (e.g., extra governance applications, advanced scripts, visual aids, unique features like custom ELT demos). - Overall creativity and differentiation from other groups.	Innovative to creative additions elevating the project.	Minimal to no additions.	10
Overall Quality and Deliverables	-	- No AI used; originality verified. - Completeness of deliverables (e.g., .bak backup file, MP4, supporting files like Excel to-do/metadata). - Clarity, professionalism, adherence to guidelines (e.g., file formats, non-technical explanations, deadlines).	Exceptional to good quality and compliance; minor issues allowable.	Poor quality or non-compliance.	10

Total Points: 100**Scoring Guidelines:**

- Reasonable:** High performance (comprehensive to solid, minor flaws); 70-100% of sub-category points.
- Inadequate:** Low performance (basic to substandard); 0-69% of sub-category points.
- Feedback Structure:** Comments on strengths, improvements, and individual contributions (e.g., from MP4, to-do lists).
- Group vs. Individual:** 70% group-based; 30% adjusted for individual performance.
- Penalties:** -10 points for AI use; -5 points for late submission; -5 points per missing deliverable.

This rubric's focus on technical skills, governance, and competencies.