Assignment 4 & 5 Rubric: **Data Collection & Data Analysis**

**Student number: Surname:**

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| **Criteria** | **Subtask 1: Data Collection Process**  **Subtask 2: Data Quality and Accuracy**  **Subtask 3: Data Organization and Storage** | | | **Grading / Score** |
| Implementation of Methodology (***student gave thought to implementation of data collection process****)*  **10 Marks** | Inadequate implementation of data collection methods; significant deviations from the research methodology  0 - 4 | Partially successful implementation with some deviations; limited adherence to the research methodology  5 - 7 | Effective and thorough implementation of data collection methods, closely following the research methodology.  8 - 10 |  |
| Data Quality Assurance  **10 Marks** | Fails to ensure data quality; data collection is riddled with errors and inaccuracies.  0 - 4 | Makes some efforts to maintain data quality but allows significant errors or inaccuracies.  5 - 7 | Maintains high data quality by rigorously following established protocols and minimizing errors.  8 - 10 |  |
| Data Storage and Security  **10 Marks** | Fails to ensure data security; data is stored in an insecure or inaccessible manner.  0 - 4 | Takes some measures for data security but may lack completeness or robustness.  5 - 7 | Effectively secures and organizes data, ensuring both security and accessibility.  8 - 10 |  |
| **Criteria** | **Subtask 1: Data Preprocessing**  **Subtask 2: Data Analysis Techniques**  **Subtask 3: Results Interpretation** | | | **Grading / Score** |
| Evidence of Data Cleaning (*student gave thought to data collection process)*  **10 Marks** | Inadequate or no data cleaning; data quality issues significantly affect analysis.  0 - 4 | Partial data cleaning with some data quality issues addressed.  5 - 7 | Comprehensive and effective data cleaning, ensuring high data quality for analysis.  8 - 10 |  |
| Method Selection  **10 Marks** | Inappropriate or poorly justified choice of data analysis methods  0 - 4 | Appropriate methods chosen but with limited justification.  5 - 7 | Well-justified selection of appropriate data analysis techniques based on research objectives and data characteristics.  8 - 10 |  |
| Application of Techniques  **10 Marks** | Techniques applied incorrectly or with major errors, leading to invalid results.  0 - 4 | Techniques applied with minor errors that do not significantly impact results.  5 - 7 | Accurate and skilful application of data analysis techniques, ensuring valid and meaningful results.  8 - 10 |  |
| Alignment with Research Goals  **10 Marks** | Analysis does not align with research objectives and questions; findings are disconnected from research goals.  0 - 4 | Analysis somewhat aligns with research objectives, but the connection is not strong.  5 - 7 | Analysis effectively aligns with research objectives and questions, demonstrating a clear link between findings and research goals.  8 - 10 |  |
| Patterns and Trends  **10 Marks** | Fails to identify or misinterprets patterns, trends, or relationships in the data.  0 - 4 | Identifies some patterns and trends but may miss important ones.  5 - 7 | Accurately identifies and effectively communicates significant patterns, trends, or relationships in the data.  8 - 10 |  |
| Complexity Handling  **10 Marks** | Struggles to handle complex data or situations, leading to oversimplification or confusion.  0 - 4 | Adequately handles complexity but may miss nuances.  5 - 7 | Effectively navigates complexity, showcasing an understanding of nuanced data situations.  8 - 10 |  |
| Clarity of Presentation  **10 Marks** | Presentation of data analysis is disorganized, unclear, or difficult to follow.  0 - 4 | Some organization and clarity, but improvements are needed for seamless understanding.  5 - 7 | Clear, well-organized, and coherent presentation of data analysis results for easy comprehension.  8 - 10 |  |
| **Total** | | | |  |