

# MKN1 — MKN1 TASK 2: NON-RELATIONAL DATABASE DESIGN AND IMPLEMENTATION

DATA MANAGEMENT — D597

PRFA — MKN1

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## EVALUATION REPORT — ATTEMPT 1 — PASSED

### Overall Evaluator Comments

#### EVALUATOR COMMENTS

You have provided a submission that effectively addresses the business problem of data management for a healthcare organization and proposes a well-structured document-based NoSQL database solution using MongoDB Atlas.

### A1. BUSINESS PROBLEM

**Competent** The submission describes a business problem that can be solved with a database solution and is in alignment with the chosen scenario. The business problem is appropriate for the scenario.

#### EVALUATOR COMMENTS: ATTEMPT 1

This submission clearly describes a business problem (data management for a growing healthcare company) and aligns it with the chosen scenario (HealthFit Innovations).

### A2. DATABASE JUSTIFICATION

**Competent** The submission logically justifies why a NoSQL database solution will solve the identified business problem.

#### EVALUATOR COMMENTS: ATTEMPT 1

This submission's proposed data structure (document-based NoSQL database) is appropriate for the identified business problem due to its flexibility and scalability for handling diverse and real-time data.

### A3. DATABASE TYPE

**Competent** The submission identifies an appropriate NoSQL database type to solve the identified business problem.

#### EVALUATOR COMMENTS: ATTEMPT 1

This submission logically justifies why a NoSQL database solution is better suited than a relational database for HealthFit Innovations, considering factors like scalability, flexibility, and real-time data processing.

### A4. DATA USAGE

**Competent** The submission accurately explains how the business data will be used within the database solution.

#### EVALUATOR COMMENTS: ATTEMPT 1

This submission accurately explains how the business data (user health information and smartwatch data) will be used within the NoSQL database solution for analysis and decision-making.

### B. SCALABILITY

**Competent** The submission discusses how the proposed database design addresses scalability concerns and includes strategies that align with the chosen scenario.

#### EVALUATOR COMMENTS: ATTEMPT 1

The submission discusses how the proposed database design addresses scalability concerns by using MongoDB's replication and sharding capabilities, ensuring high availability and performance under increasing load.

### C. PRIVACY AND SECURITY

**Competent** The submission accurately outlines the privacy and security measures that should be implemented in the proposed database design.

#### EVALUATOR COMMENTS: ATTEMPT 1

This submission outlines privacy and security measures that can be implemented in MongoDB Atlas, including authentication, authorization, and data encryption to protect sensitive health data.

## D1. DATABASE INSTANCE

**Competent** The script to create a database instance using the appropriate query language is functional and is based on the logical database model created in part B. A clear screenshot showing the script and the database instance in the platform is provided.

### EVALUATOR COMMENTS: ATTEMPT 1

This submission creates a database instance named "D597 Task 2" is provided along with a screenshot showing the script and the database instance successfully created in the platform.

## D2. INSERT RECORDS

**Competent** The script provided to insert or map the data records from the chosen scenario JSON files into the database is functional. A clear screenshot showing the script and the data correctly inserted or mapped into the database is provided.

### EVALUATOR COMMENTS: ATTEMPT 1

This submission provides scripts to insert data records from the chosen scenario JSON files into the database collections (smartwatches and health data) are provided. Screenshots demonstrate the scripts and successful data insertion.

## D3. QUERIES

**Competent** The scripts provided for 3 queries to retrieve specific information from the database that will help to solve the identified business problem are functional. A clear screenshot showing the script for each query successfully executed are provided.

There are no comments for this aspect.

## D4. OPTIMIZATION

**Competent** The submission applies optimization techniques to improve the run time of each the queries written in part D3 and provides the output results via a screenshot.

There are no comments for this aspect.

## E1. PRESENTATION: ORGANIZATION AND PROFESSIONALISM

**Competent** The presentation of the program walk-through is clear, is organized, and demonstrates appropriate communication skills. For the duration of the presentation, the video captures *both* the presenter and the functioning program in a Panopto video recording. The presenter's appearance is professional. The presentation includes technical detail appropriate for an audience of a project team with technical knowledge.

There are no comments for this aspect.

## E2. PRESENTATION: CONTENT

**Competent** The presentation thoroughly and accurately demonstrates each of the given requirements and reflects a functioning database solution.

There are no comments for this aspect.

## F. SOURCES

**Competent** The submission includes in-text citations for sources that are properly quoted, paraphrased, or summarized and a reference list that accurately identifies the author, date, title, and source location as available, or the submission states no sources were used.

### EVALUATOR COMMENTS: ATTEMPT 1

This submission includes appropriate elements required for in-text citations and references.

## G. PROFESSIONAL COMMUNICATION

**Competent** Content reflects attention to detail, is organized, and focuses on the main ideas as prescribed in the task or chosen by the candidate. Terminology is pertinent, is used correctly, and effectively conveys the intended meaning. Mechanics, usage, and grammar promote accurate interpretation and understanding.

### EVALUATOR COMMENTS: ATTEMPT 1

This submission includes appropriate documents that show clear organization and proper grammar.