

AI Usage Log - Mobile Money Database Project

Project: Mobile Money Transaction Database (momo_db)

Group Name: Group 7

Date Range: January 20-26, 2026

Log Entry 1

Date: January 22, 2025A

Time: 14:30

AI Tool Used: Grammarly

Purpose: Grammar and syntax checking

Task Description: Reviewed the Design Philosophy section of the documentation for grammatical errors and clarity improvements.

AI Input: Pasted draft paragraphs from design philosophy document

AI Output Used: Corrected punctuation errors, suggested replacing "data duplication" with "duplicate data" for clarity

Original Work Preserved: Yes - all technical concepts, database design decisions, and explanations were my own

Policy Compliance: ✓ Permitted use (grammar checking)

Log Entry 2

Date: January 23, 2025

Time: 09:15

AI Tool Used: ChatGPT

Purpose: Research MySQL best practices

Task Description: Researched standard practices for indexing foreign keys in high-traffic transaction tables

AI Input: "What are MySQL indexing best practices for foreign key columns in financial transaction systems?"

AI Output Used: Confirmed that indexing sender_id and receiver_id improves JOIN performance; learned about composite index benefits for frequently paired queries

Citation: Referenced MySQL documentation recommended by AI
(<https://dev.mysql.com/doc/refman/8.0/en/optimization-indexes.html>)

Original Work Preserved: Yes - index placement decisions based on my schema analysis and query patterns

Policy Compliance: ✓ Permitted use (research with citation)

Log Entry 3

Date: January 24, 2025

Time: 16:45

AI Tool Used: VS Code SQL Extension (IntelliSense)

Purpose: SQL syntax verification

Task Description: Verified correct syntax for CHECK constraint declarations in CREATE TABLE statements

AI Input: Typed CHECK constraint, extension provided syntax highlighting and error detection

AI Output Used: Confirmed parentheses placement and constraint naming syntax were correct

Original Work Preserved: Yes - constraint logic (amount > 0, sender_id != receiver_id) was my design

Policy Compliance: ✓ Permitted use (syntax verification)

Log Entry 4

Date: January 25, 2025

Time: 11:20

AI Tool Used: Grammarly

Purpose: Grammar and clarity checking

Task Description: Proofread JSON Data Modeling documentation for professional presentation

AI Input: Pasted complete JSON examples and mapping documentation

AI Output Used: Fixed comma splices, improved sentence flow in explanatory paragraphs, and suggested consistent capitalization for technical terms

Original Work Preserved: Yes - all JSON schemas, SQL-to-JSON mappings, and API response structures were my original work

Policy Compliance: ✓ Permitted use (grammar checking)

Declaration

We certify that all AI usage documented above complies with the course AI Usage Policy. No AI tools were used to generate database designs, schemas, business logic, relationships, or technical reflections. All core project work represents my original analysis and implementation.