# Assignment Web Similarity Analysis

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## Executive Summary

**Overall Web Similarity Score:** 1%

**Assessment:** Extremely low similarity. The assignment primarily focuses on database implementation details and project-specific information, which is not present in the provided web sources. The few overlapping terms relate to general database concepts or the "pet adoption" theme, which is a common project topic.

**Conclusion:** The assignment shows no evidence of plagiarism. The matches identified are generic terms related to database systems and the chosen project theme (pet adoption), which are commonly used in such contexts. The assignment's core content, including table creation, data insertion, updates, deletions, and queries, is unique and project-specific.

## Web Sources Analyzed

| Source URL | Similarity Score |
|---|---|
| https://www.chegg.com/homework-help/questions-and-answers/write-sql-statement-display-columns-rows-pet-use-th | <font color='green'>20.69%</font> |
| https://discuss.codecademy.com/t/i-need-help-with-adopt-a-pet-exercise-from-introduction-to-flask/601701 | <font color='green'>11.11%</font> |
| https://www.chegg.com/homework-help/questions-and-answers/normalization-exercise-1-petid-pet-name-246-rover-h | <font color='green'>9.46%</font> |
| https://discuss.codecademy.com/t/adopt-a-pet-task-14-keyerror-pet-type/534170 | <font color='green'>13.0%</font> |
| https://www.ebay.com/itm/405532039523 | <font color='green'>15.83%</font> |

## Detailed Content Matches

### *Match 1 - Common Knowledge (90%)*

**Assignment:** PET

**Source:** https://www.chegg.com/homework-help/questions-and-answers/write-sql-statement-display-columns-rows-pet-use-theasterisk-notation-32-write-sql-stateme-q54103924

**Source Text:** PET

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### *Match 2 - Similar Content (60%)*

**Assignment:** Pet Adoption Database

**Source:** https://discuss.codecademy.com/t/i-need-help-with-adopt-a-pet-exercise-from-introduction-to-flask/601701

**Source Text:** Adopt a Pet

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### *Match 3 - Common Knowledge (90%)*

**Assignment:** PET

**Source:** https://www.chegg.com/homework-help/questions-and-answers/normalization-exercise-1-petid-pet-name-246-rover-health-history-report-pet-type-pet-age-o-q90689598

**Source Text:** PET

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### *Match 4 - Similar Content (60%)*

**Assignment:** Pet Adoption Database
**Source:** https://discuss.codecademy.com/t/adopt-a-pet-task-14-keyerror-pet-type/534170
**Source Text:** Adopt a Pet

# Full Assignment with Highlighted Plagiarism

*Sections highlighted in yellow with red text indicate potential plagiarism.*

DATABASE SYSTEMS MINI PROJECT
A Report Submitted to the

Department of Electrical and Information Engineering
Faculty of Engineering
University of Ruhuna
Sri Lanka
on 9th of April 2024

In completing an assignment for the module ECE 4350
Database Systems
By

EG/2021/4432

:

BANDARA KMTON

EG/2021/4433

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BANDARA LRTD

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Part A Relational Database

## 1.1 Chapter 1 Requirement Analysis

### 1.1.1 Functional Requirements

During this project it is clearly understand whether the relationship has build up upon the pet adoption centre. Initially concluded that the entities, attributes and the relationships where the database of pet adoption which is deals with the adopters and also the pet availability . here used the conceptual database model while these process it has converted the conceptual representation into the logical structure of

database through the normalization process. In these database it was used the MySql to represent the physical structure of the database on Pet_-Adoption.

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First identify the user under the categories as adopters, admin, employees as well as the personal details of them.
As the main relationship is occurred with the users with the pet which are under adopted or they has still live in this centre as well as including with the details of the pets availability.
Considering pet entity it mainly focused on their health issues from that there has stored data as vet visit details , as well as the medical history of those animals.
When considering about the pet adoption centre it has direct relationship with the users and transactions whom are adopters, or the donators it will be transacted with. As well as it includes the financial also it provides that it has mainly income of it.
Considering about the user there is a entity named shelter where it was managed or worked employees in the adoption centres where they has spread over the country.
It can be a user as an adopter or willing to be an adopter so that there is an opportunity to showcase the abilities of their pets or can watch the abilities of the pets and can be get a dicision of think of the adoption.
As an adopter there is a main service provide here that is can be get veterinary services under the various vets' supervision.

1.1.2 Data Requirements

Considering about these database it can be identified as basically 8 entities and that was consistence with 2 weak entities also. Others are named as strong entities. All the entities and the attributes of the database is provided below.

➢ Strong entities and attributes

1. User

User_ID
Name
Contact_No
Email
Adress
Reg_Date

2. PET

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Pet_ID
User_ID
Pet_Name
Pet_Type
Age
Date of birth
Breed
Availability

3. Transaction

Trans_ID

User_ID
Vet_ID
Trans_Date
Amount
Trans_Type
4. Financial
Amount
Trans_ID
User_ID
5. Event
Event_ID
Event_Name
Event_Date
User_ID
Event_Location
6. Vetanary
Vet_ID
Vet_Name
User_ID
V_Date
Pet_ID
Medicine
7. Vet_Visit
Vetvisit_ID
Vet_ID
Visit_Date
Reason
Vet_Name
Pet_ID
➢ Weak entites and attributes
1. Medical_History
History_ID
Pet_ID
Pre_Date
Details
2. Comments



Chapter 2 Conceptual Design

Figure 1: Entity Relationship Diagram of the Pet Adoption Database

Logical Design

Figure 2: Logical Database Design



Chapter 4 – Implementation

3.1 Create the Data base

Figure 3: create database

3.1.1 Create Tables

Figure 4: create USER table

Figure 5:Create User_Contact Table

Figure 6:Create PET Table

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Figure 15: Create financial table

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Figure 18: Show all the created tables

3.1.2

Inserting Values

Insert values to user

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3.1.3 Update

Figure 35: Update USER Table

Figure 36: Update User_Contact table

Figure 37: Update Pet table

Figure 38: Update Event table

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Figure 41: Update Get_Medicine table

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Figure 43: Update Medical_History table

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Figure 46: Update Finance table

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3.1.4

Delete

Figure 49: Delete in USER

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Figure 51: Delete in PET

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Figure 60: Delete in Financial

Figure 61: Delete in vet_vist

Figure 62: Delete in vist_reason

3.2 Transaction

3.2.1 Simple queries

1. Retrieve al tuples from USER table

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3.3 DATABASE TUNING

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2. TUNING 2 (user whose has adopted and participated events)

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6. TUNING 6

Figure 92: Tunning 6

7. TUNING 7

Figure 93: Tuning 7

8. TUNING8

Figure 94: Tuning 8

9. TUNING 9

Figure 95: tuning 9

10 . TUNING 10

Figure 96: Tuning 10

# Analysis Methodology

**Web Similarity Analysis Method:** This report analyzes the similarity between a student assignment and web content using multiple approaches:

1. **Basic similarity analysis** using TF-IDF vectorization and cosine similarity metrics to calculate statistical similarity between texts.
2. **Advanced semantic analysis** using Google's Gemini AI to identify conceptual similarities, common phrases, and potential plagiarism patterns.
3. **Source verification** by analyzing multiple sources to distinguish between common knowledge and unique content.

**Interpretation Guide:**

- 0-15%: Very low similarity - Likely original content
- 16-30%: Low similarity - Contains common phrases but largely original
- 31-50%: Moderate similarity - May contain some paraphrased content
- 51-70%: High similarity - Contains substantial similar content
- 71-100%: Very high similarity - Significant portions may be unoriginal

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