

Database Management (SQL Server)

Final Asse2t Project 2

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| **Faculty** | Information Technology | | |
| **Module Name** | Database Management | **Module Code** | ITSSA0 |
| **Project Number** | 2 | **Copy Editor** | Ms Nicole Stern |
| **Student Name** | Sopumelela | **Date Submitted** |  |
| **Student Surname** | Sandekela | **Student Number** | CON-1475940-C5L6 |
| **Marker Name** |  | **Date Marked** |  |
| **Mark** | /120 | **Percentage** | % |
| **Moderator Name** |  | **Date Moderated** |  |
| **Mark** | /120 | **Percentage** | % |

|  |  |  |
| --- | --- | --- |
| **Achievement: %** | **Possible** | **Achieved** |
| **Source code documentation** | | |
| Comments, including author, date and purpose, for each script file. | 3 |  |
| Descriptions for individual code segments. | 3 |  |
| Correct indentation of code. | 3 |  |
| Keywords capitalised, with the table and column names in  lowercase. | 3 |  |
| Each clause of a SQL statement appears on a different line. | 3 |  |
| All variables declared as the correct type. | 3 |  |
| Descriptive naming of variables. | 3 |  |
| **Subtotal:** | **21** |  |
| **Project content** |  |  |
| Database created correctly. Tables created in same script. | 6 |  |
| Tables created correctly (use of PRIMARY KEY, FOREIGN KEY,  QUE, CHECK constraints, IDENTITY, DEFAULT). | 10 |  |

# ITSSA0 – **Project 2** – Final Assessment 2023 | V3.0 Page 1 of 2

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| --- | --- | --- |
| Stored procedures are correct and work as specified. | 16 |  |
| Views are correct and work as specified. | 12 |  |
| Triggers are correct and work as specified. | 4 |  |
| Sample data inserted correctly. | 5 |  |
| Indexes are correct and used efficiently. | 2 |  |
| WHILE loops are used appropriately and efficiently. | 10 |  |
| Backup restores correctly and is done according to specifications. | 2 |  |
| ER diagram included and correct. | 5 |  |
| User documentation included and sufficient. | 5 |  |
| General code efficiency. | 8 |  |
| **Subtotal:** | **85** |  |
| **Output** | | |
| Stored procedures produce logical and meaningful output. | 4 |  |
| Views produce logical and meaningful output. | 3 |  |
| **Subtotal:** | **7** |  |
| **Penalties** | | |
| Project returned and resubmitted. | -10% |  |
| Project copied. | -20% |  |
|  |  |  |
| **Error handling** | | |
| Validation of required arguments. | 4 |  |
| Error messages are used in a clear and helpful way. | 3 |  |
| **Subtotal:** | **7** |  |
| **General comments** | | |
|  | | |
|  | | |
|  | | |
| **Total:** | **120** |  |

**ER Diagram for the scenario**

ANIMAL

#\*animID

\*animType

\*animName

\*stockLvl

FOOD DONATION DETAILS

\*quantity

\*unitOfMeasure

MANUFACTURER

#\*manID

\*compName

\*contactNo

o emailAddress

FOOD

#\*foodID

\*foodType

\*foodName

\*expiryDate

**User Documentation**

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name & Surname: Sopumelela Sandekela

Student number: CON-1475940-C5L6

Date: 25/11/2023

Description: Documentation on project overall.

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This project is to help the Tyger Valley Pet Shelter store their store information on their suppliers, food types, animal categories and pet types. As a recruited database designer, I am required to create a database that provides the service needed in a most efficient and scalable manner.

This project comprises of:

* ITSSA0 – Project 2 – ER & Documentation (V3.0) (IS) **[Word Document]**

This word document has an ER Diagram for the Tyger Valley Pet Shelter scenario and documentation on Project.

* 1. Create\_Database\_And\_Table.sql **[SQL Script]**

This SQL script file will create a Database and Tables for Tygervalley Pet Shelter (TPS)

* 2. Sample\_Data\_Inserts.sql **[SQL Script]**

This SQL script file will Insert sample data on Tables that exist on Tygervalley Pet Shelter (TPS) database.

* 3. Create\_Views.sql **[SQL Script]**

This SQL script file will create a Views for different scenarios specified on Tygervalley Pet Shelter (TPS) Database requirements.

* 4. Create\_Insert\_Procedure.sql **[SQL Script]**

This SQL script file will create a Stored Procedure Inserting a new pet type record.

* 5. Create\_Update\_Procedure.sql **[SQL Script]**

This SQL script file will create a Stored Procedure UPDATING a record on the Animal table.

* 6. Create\_Delete\_Procedure.sql **[SQL Script]**

This SQL script file will create a Stored Procedure to Delete a specified food type and all dependent/child records.

* 7.1. Create\_CursorReport\_Procedure.sql **[SQL Script]**

This SQL script file will create a Stored Procedure for printing report reading using cursor.

* 7.2. Create\_IterationReport\_Procedure.sql **[SQL Script]**

This SQL script file will create a Stored Procedure for printing report reading using Interaction method.

* 8. Create\_Trigger.sql **[SQL Script]**

This SQL script file will create two triggers on the tables that I have created.

* 9. Create\_Indexes.sql **[SQL Script]**

This SQL script file will Create Indexes on the tables I have created.