DBS211 – Final Project

**Milestone 3– Data Scripting and Creation**

Seneca College

Course Code: DBS211

Professor’s Name: Clint Macdonald

Group No.: **Group 6**

Group Members: Chaeyoung Park, Saetbyeol Lim, Essie Lee

Student No.: 011784154, 149814212, 185267218

Date of Submission: Aug 13, 2022

**Business Report**

**Case 1**

Animal Wellness Plan - Animals' Disease and Health Care

— Purpose

Although the zoo does not accept animals on an enormous scale, there are new incoming animals regularly. The zoo has to implement vaccination for the new animals so that they can do herd living with other existing animals.

— Benefit Outlook

By tracking the date and vaccine type for each animal,  the zoo can continue the vaccine properly based on the data. This activity allows the zoo to save not only a loss of medical expenses but a loss of animals since they prevent the animals from diverse diseases.

—Query

CREATE VIEW v\_vaccination AS

SELECT a.animalID, a.animalName, a.sex, m.vacRecordNum

FROM ANIMAL a

FULL JOIN vaccination\_event m

ON a.animalID = m.animalID;

SELECT \*

FROM v\_vaccination

WHERE vacRecordNum IS NULL;

**Case 2**

ANIMAL WELLNESS PLAN - Establish long-term relationships

— Purpose

To understand interactions between vet and animal. The vets in the zoo take care of all the animals but just like humans, there can be a special bonding between vets and animals that may have unexpected benefits.

— Benefit

The proposed plan will improve our understanding of the interactions between particular veterinarians and certain animal types. When a vet is assigned to a particular animal type, the vet can provide the animals better medical treatment based on in-depth knowledge of the animals gained through repeated interaction. This can lead to improved health, emotional wellbeing, and longevity of the animal as well.

—Query

CREATE VIEW vwvet\_animal AS

SELECT m.medicalRecordNumber, a.animalID, a.animalName, e.firstname || ' ' || e.lastname AS "Vet Name"

FROM medical\_record m

JOIN animal a ON m.medicalRecordNumber = a.medicalRecordNum

JOIN employee e ON m.vetID = e.employeeID;

**Case 3**

ZOO REVIVAL PLAN - Develop Underutilized Sections

— Purpose

The zoo has had a drastic reduction in animal inventory over the past year following the Pandemic. As a result, there are sections of the zoo that need reshuffling.

Find which section is underutilized and decide whether to move animals around or temporarily close off the area.

— Benefit Outlook

By shuffling the animals to better utilize the sections or enhancing the zoo collection to provide more variety to visitors, the zoo can attract more visitors and grow

revenue.

—Query

CREATE VIEW vwlocation AS

SELECT l.locID, l. locationDescription, l.sectionName, a.animalName

FROM location l FULL JOIN animal a ON l.locID = a.locationID;

SELECT \* FROM vwlocation

    WHERE animalName IS NULL;

**Case 4**

Zoo Employees' Salary Management - Payment of additional allowance

—Purpose

Confirmation of workers in January to pay additional allowance to caretakers who worked in January

— Benefit

In the case of caretakers, it is essential to work overnight because they must carefully manage the living environment of the animals. According to working days, additional allowances are required for extra work, and the VIEW is derived to provide a reasonable monthly salary. This VIEW helps manage payroll by making it possible to calculate a reasonable salary for the caretakers that take into account overtime pay for days worked and compensation for their extra work.

—Query

CREATE VIEW CARETAKERINJAN as

SELECT a.dailylogId, e.employeeID, e.firstname || ' ' || e.lastname AS "NAME", e.email, e.phonenumber, e.sinnumber

FROM EMPLOYEE e

JOIN ANIMAL\_DAILY\_LOG a

ON e.employeeID = a.caretakerId

ORDER BY a.dailylogID;