***Project part4b:***

**GitHub link:**  <https://github.com/githublinga>

* **Adding a new column of type ‘ENUM’:**

**Sql\_script:**

SHOW COLUMNS FROM animalshelter;

ALTER TABLE animalshelter

ADD COLUMN status ENUM ('Active', 'Inactive') NOT NULL DEFAULT 'Active';

SHOW COLUMNS FROM animalshelter;

**Explanation:**

Purpose: This column named 'status' represents the current status of the animal shelter, and it can be either 'Active' or 'Inactive'.

The ENUM type restricts the values to a predefined set, and the NOT NULL constraint ensures that the column cannot have NULL values.

The DEFAULT 'Active' sets the default value to 'Active' if not specified during insertion.

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* **Inserting a new record of data:**

**SQL script:**

INSERT INTO animalshelter (shelterid, sheltertype, description)

VALUES (4, 'Cozy Aquarium', 'A cozy shelter for aquatic animals');

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Description automatically generated**Explanation:**

Attempting to insert a record without providing a value for the ENUM column ('status') came an error.

* **Modifying the insert to include a valid entry:**

**SQL scripts:**

INSERT INTO animalshelter (sherterid, sheltertype, description, status)

VALUES (4, 'Cozy Aquarium', 'A cozy shelter for aquatic animals', 'Active');

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**Explanation:**

This command modifies the previous insert by providing a valid value ('Active') for the 'status' column.

* **Changing and updating records:**

**SQL scripts:**

UPDATE animalshelter

SET description = 'A cozy shelter for aquatic animals, fishes, and turtles'

WHERE sherterid = 4;A screenshot of a computer

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**Explanation:**

This command updates the 'description' column for the record with 'shelterid' 4.

* **Deletion of records:**

**SQL scripts:**

DELETE FROM animalshelter

WHERE sherterid = 4; **A screenshot of a computer

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**Explanation:**

This command deletes the record with 'shelterid' 4.

* **Demonstrating the use of AUTO-INCREMENT:**

**SQL scripts:**

INSERT INTO rawmaterial (materialtype, description)

VALUES ('Metal', 'Durable material with various industrial applications');

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**Explanation:**

The 'materialid' column is set to 'AUTO\_INCREMENT', so we don't need to provide a value for it.

* **Demonstrating the use of DEFAULT:**

**Sql scripts:**

INSERT INTO rawmaterial (materialtype, description)

VALUES (DEFAULT, 'Generic material with no specific type');

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**Explanation:**

The 'materialtype' column has a default value, so we can insert a record without specifying a value for it.