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Views

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What are SQL Views?

A view is a virtual table that represents a stored query result.

Views are used to: Simplify complex queries Improve security by restricting access to specific columns Enhance readability and data presentation







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Views

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High-Value Items in the Vault

Business Use:

Acts as a prize pool for guild tournaments or achievement milestones

CREATE VIEW High_Value_Items AS SELECT i.item_id, i.name, i.rarity, i.value, g.capacity FROM item i LEFT JOIN guild_vault g ON i.vault_id = g.vault_id WHERE i.value > 1000;



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Views

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Member Rankings and Completion Rates

Business Use:

Encourages adventurers to have milestones to work toward.

CREATE VIEW Member_Stats AS SELECT m.member_id, m.name, r.rank_name, m.quest_completion_rate FROM member m LEFT JOIN rank r ON m.rank_id = r.rank_id;



es Subqueries as

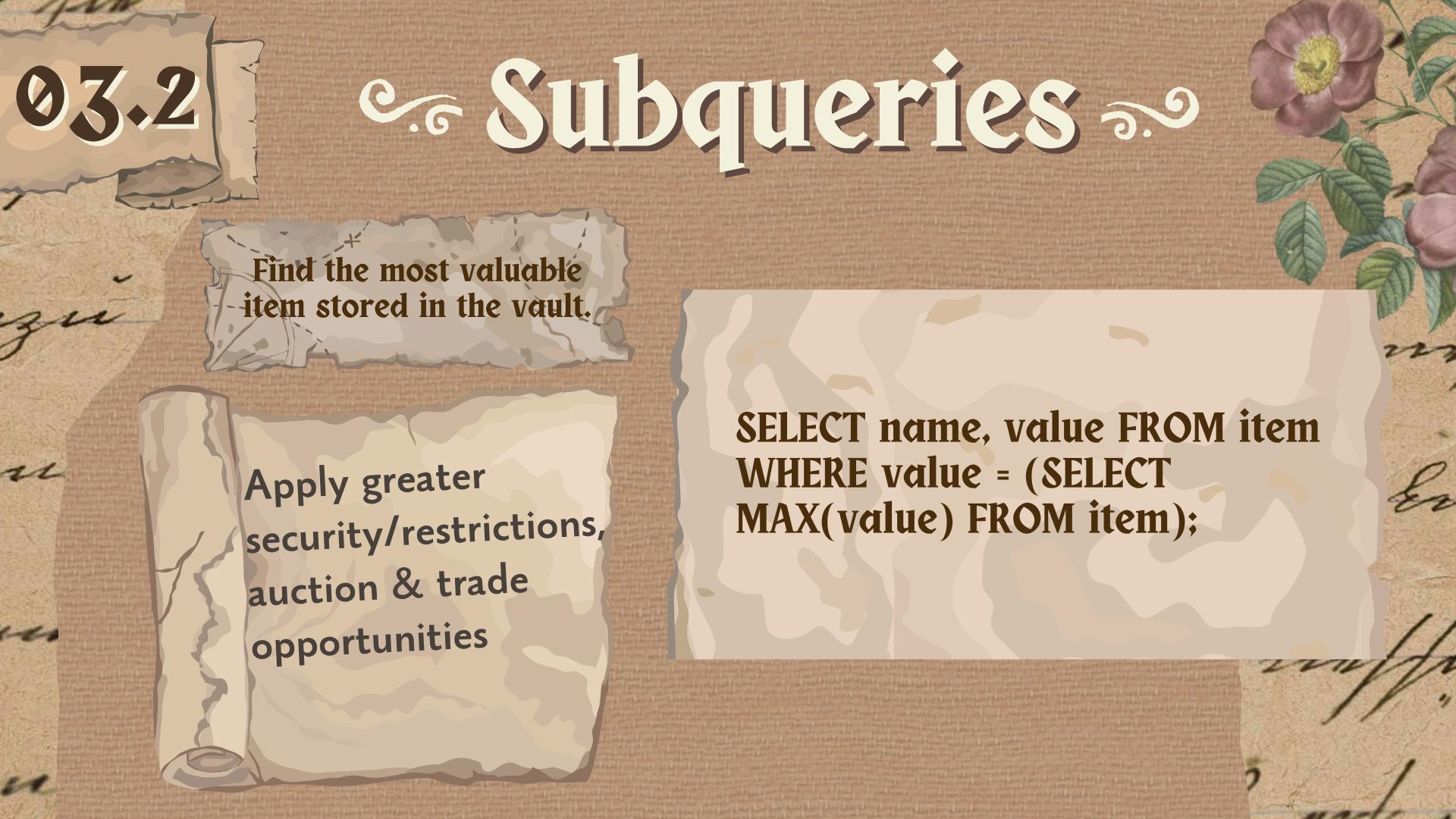
What is a Subquery? A subquery (also called a nested query) is a query inside another SQL query. It is used to retrieve intermediate results that help filter or refine the final output.

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es Subqueries as

Finding the most profitable adventurer:

highlight elite adventurers for recruitment campaigns, sponsorship, leadership roles SELECT member_id, name, SUM(base_amount) AS earnings FROM member JOIN quest_reward USING(member_id) GROUP BY member_id ORDER BY earnings DESC LIMIT 1;





Stored Procedures & Stored Functions



What are Stored Procedure & Stored Functions?

A stored procedure is a reusable SQL script that performs a specific task without returning a value (unless using OUT parameters).

It reduces code duplication, improves performance, and automates repetitive tasks.

A stored function is similar to a procedure but always returns a single value.

It is often used for calculations, conversions, or data transformations



Stored Procedures



DELIMITER \$\$

CREATE PROCEDURE AssignQuest(IN questID

INT, IN memberID INT)

BEGIN UPDATE quest SET assigned_party_id =

(SELECT party_id FROM party_member

WHERE member_id = memberID)

WHERE quest_id = questID;

END \$\$

DELIMITER:

Assigning a quest to an adventurer:

Automates quest assignment to adventurers.



Stored Procedures

Promote a member based on completion rate

Encourage adventurers to complete assigned quests

DELIMITER // CREATE PROCEDURE PromoteMember(IN memberId INT) BEGIN **UPDATE** member SET rank_id = rank_id + 1 WHERE member_id = memberId AND quest_completion_rate > 90; END // **DELIMITER**;



Stored Procedures

Calculate total value of items in the vault

DELIMITER //

CREATE FUNCTION TotalVaultValue()

RETURNS FLOAT

DETERMINISTIC BEGIN DECLARE total FLOAT;

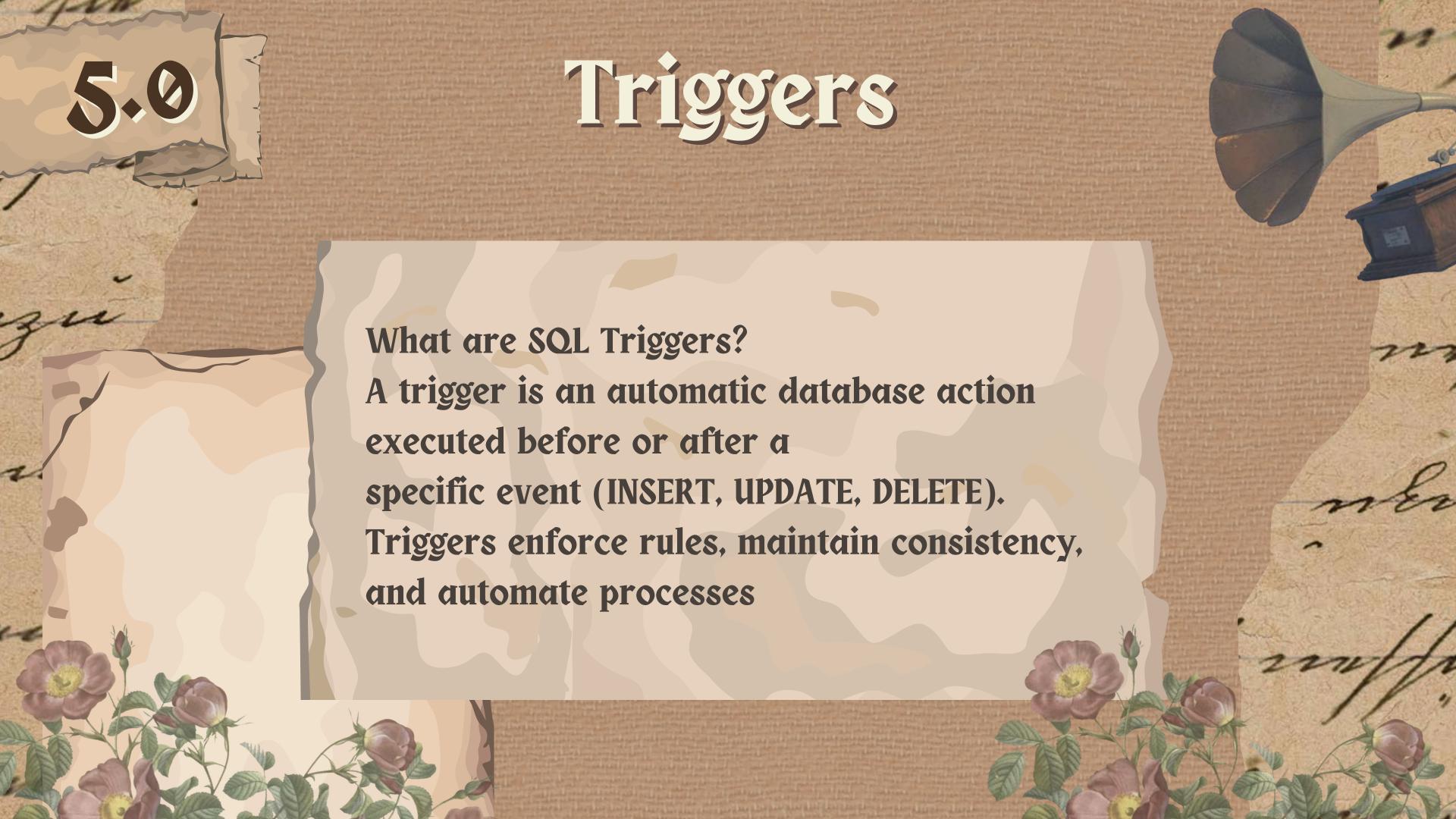
SELECT SUM(value) INTO total FROM item;

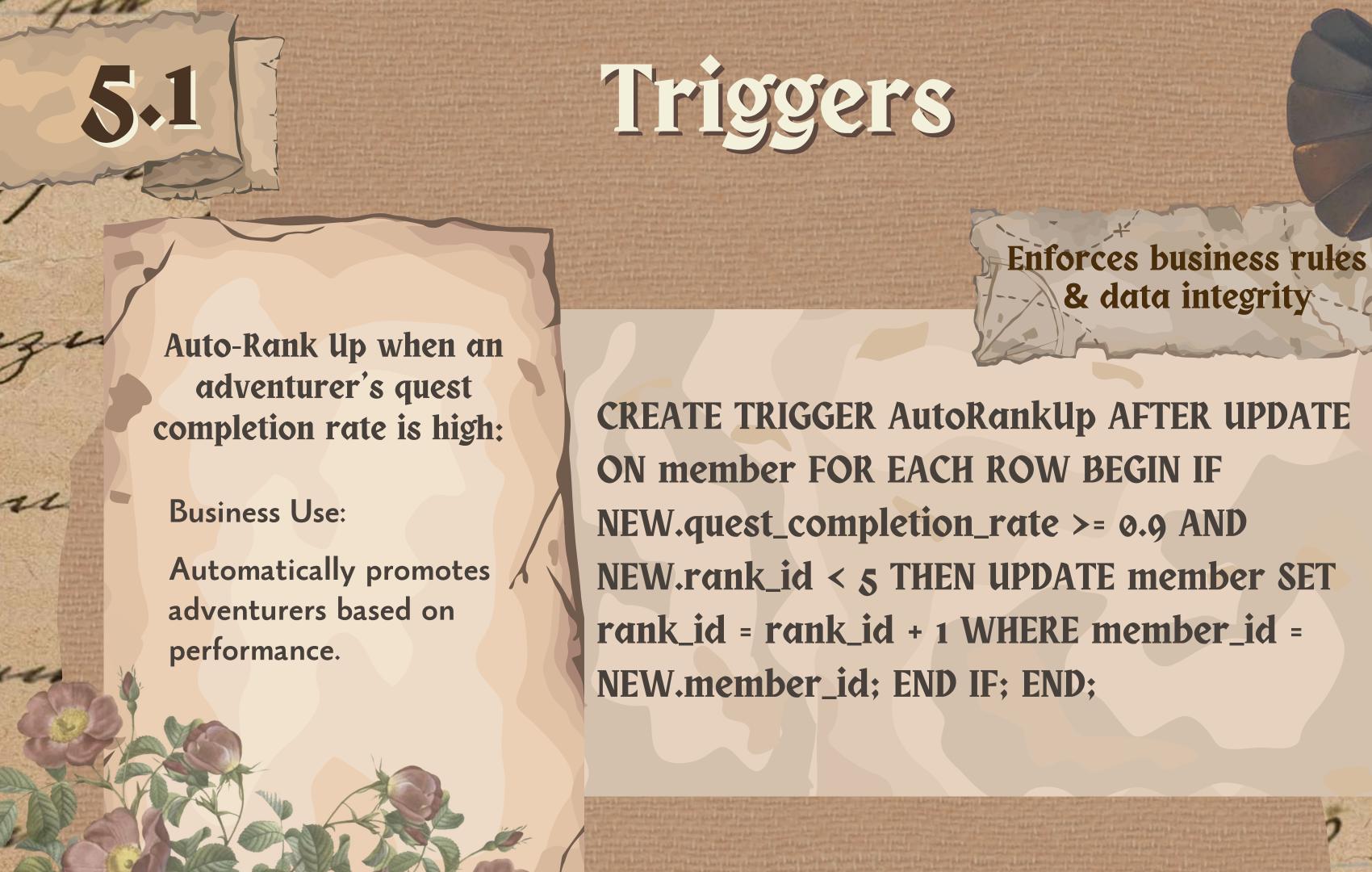
RETURN total;

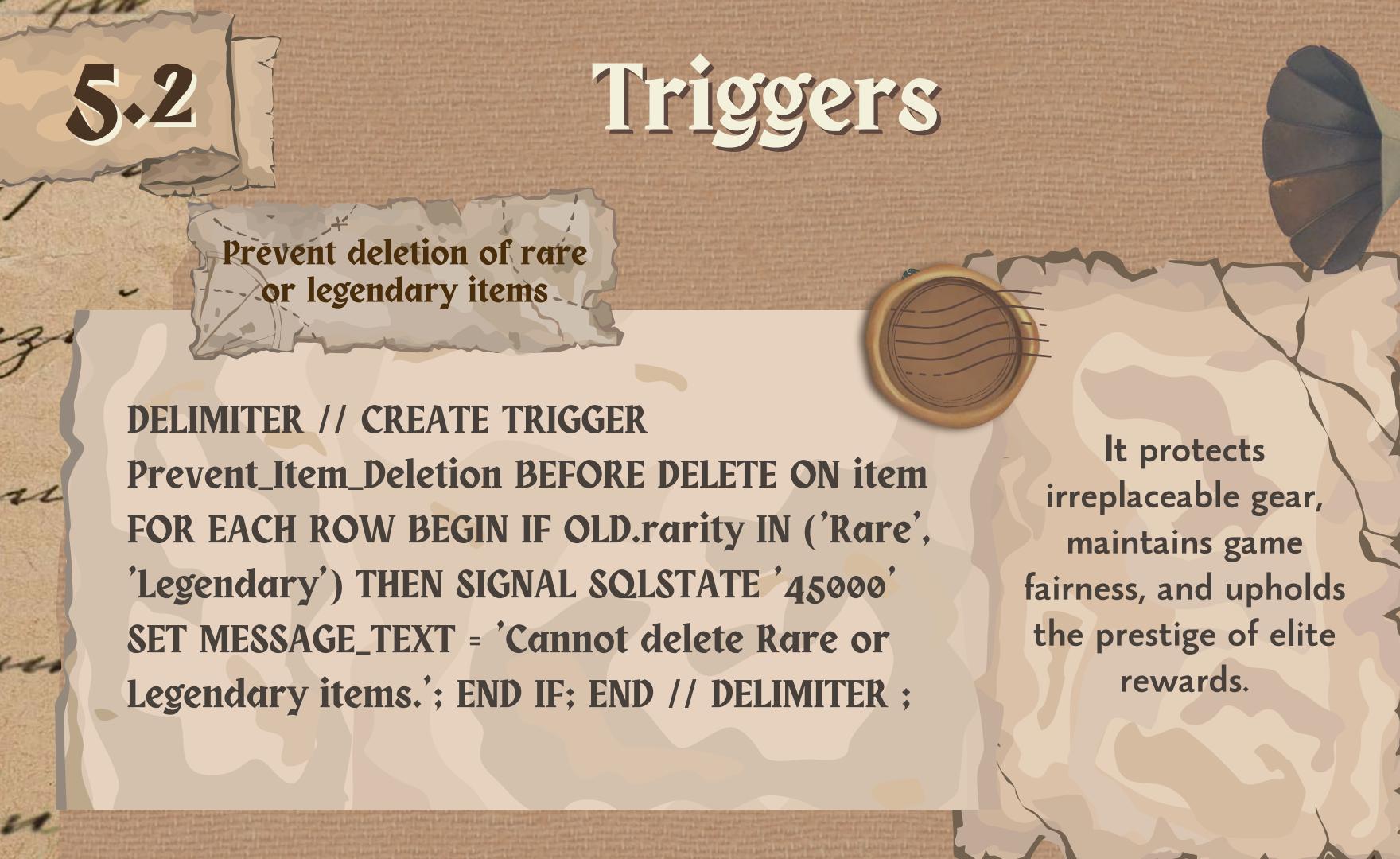
END //

DELIMITER;

Financial management, proper budgeting, vault capacity management







5.3

Triggers

The auto-set
quest completion
date ensures
accurate tracking
of when a quest
was finished

This is crucial for reward distribution, progress analytics, and historical record-keeping.

DELIMITER //
CREATE TRIGGER

Set_Completion_Date BEFORE UPDATE ON quest FOR EACH ROW BEGIN

IF NEW.completed = 1 AND OLD.completed = 0 THEN SET NEW.deadline = CURDATE(); END IF;

END //
DELIMITER;

Auto-set quest completion date when marked as completed



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Event 1

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla accumsan nisl sit amet faucibus accumsan. Aliquam fringilla erat non est blandit.



Event 2

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla accumsan nisl sit amet faucibus accumsan. Aliquam fringilla erat non est blandit.



Event 3

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nulla accumsan nisl sit amet faucibus accumsan. Aliquam fringilla erat non est blandit.

