**Day 44 - 90 days of Analytics: Views**

In today’s first video, we looked at views in SQL

The following were mentioned

-In SQL, a **view** is a virtual table based on the result-set of an SQL statement.

-A view contains rows and columns, just like a real table. The fields in a view are fields from one or more real tables in the database.

-We can add SQL statements and functions to a view and present the data as if the data were coming from one single table.

-A view is created with the **CREATE VIEW** statement. Syntax

CREATE VIEW view\_name AS

SELECT column1, column2, ...

FROM table\_name

WHERE condition;

-We should note that, a view always shows up-to-date data! The database engine recreates the view, every time a user queries it.

***Example***

CREATE VIEW female\_staff AS

SELECT StaffID,Age,Gender

FROM staff\_db.staffdemographic

WHERE Gender="Female";

-To see the content of the view we created above

SELECT \*

FROM female\_staff;

-A view can be updated with the **CREATE OR REPLACE VIEW** statement. Syntax

CREATE OR REPLACE VIEW view\_name AS

SELECT column1, column2, ...

FROM table\_name

WHERE condition;

***Example***

CREATE OR REPLACE VIEW female\_staff AS

SELECT StaffID,Age,Gender

FROM staff\_db.staffdemographic

WHERE Gender="Female";

-A view is deleted with the **DROP VIEW** statement. Syntax

DROP VIEW view\_name;

***Example***

DROP VIEW female\_staff;

Link to the YouTube Recording: <https://www.youtube.com/watch?v=rywMXOROqn0>

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**Day 44 - 90 days of Analytics: Stored Procedures**

In today’s second video, we looked at stored procedures with SQL

The following were mentioned

-A **stored procedure** is a prepared SQL code that we can save, so the code can be reused over and over again. So if we have an SQL query that you write over and over again, we can save it as a stored procedure, and then just call it to execute it.

-We can also pass parameters to a stored procedure, so that the stored procedure can act based on the parameter value(s) that is passed. Syntax

DELIMITER //

CREATE PROCEDURE procedure\_name

BEGIN

sql\_statement

END //

-To execute a **Stored Procedure** we use the following syntax

CALL procedure\_name;

***Example***

DELIMITER //

CREATE PROCEDURE GetAllMale()

BEGIN

SELECT \*

FROM staff\_db.staffdemographic

WHERE Gender = "Male";

END //

CALL GetAllMale();

-Parameters can be passed to procedures. An example is shown below

DELIMITER //

CREATE PROCEDURE GetStaffByJob(IN Job VARCHAR(15))

BEGIN

SELECT \*

FROM staff\_db.staffsalary

WHERE JobTitle = Job;

END //

CALL GetStaffByJob("Analyst");

-A stored procedure can also give produce some output as shown in the example below

DELIMITER $$

CREATE PROCEDURE GetCountByJob(IN Job VARCHAR(15), OUT total INT)

BEGIN

SELECT COUNT(JobTitle) INTO total

FROM staff\_db.staffsalary

WHERE JobTitle = Job;

END $$

CALL GetCountByJob("Analyst",@total);

SELECT @total AS JobCount;

Link to the YouTube Recording: <https://www.youtube.com/watch?v=-LzkeGMmjrA>

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