7. SQL Functions

Function				
Туре	Examples	Explanation	Example Usage	
String Functions	CONCAT(), SUBSTRING(), UPPER(), LOWER()	Manipulate string data	SELECT CONCAT(FirstName, ' ', LastName) AS FullName FROM Employees;	
Numeric Functions	ROUND(), ABS(), CEIL(), FLOOR()	Perform operations on numeric data	SELECT ROUND(Price, 2) AS RoundedPrice FROM Products;	
Date Functions	NOW(), CURDATE(), DATEDIFF(), DATE_FORMAT()	Manipulate date and time data	SELECT OrderID, DATEDIFF(CURDATE(), OrderDate) AS DaysSinceOrder FROM Orders;	
Aggregate Functions	COUNT(), SUM(), AVG(), MAX(), MIN()	Perform calculations on a set of values	SELECT AVG(Salary) AS AverageSalary FROM Employees;	

8. SQL CLAUSES

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Clause	Explanation	Syntax LOSAIC.C	- Ample
			SELECT * FROM Employees
	Filters records based	SELECT Count 1 column2 FROM	WHERE Department =
WHERE	on a condition	t t le_name WHERE con dition	'Sales';
	view Th	-de 4	SELECT Department,
Dre	PAIN P	SZ LS column1,	COUNT(*) FROM
GNOUP	Groups rows that have	aggregate_function(column2) FROM	Employees GROUP BY
BY	the same values	table_name GROUP BY column1;	Department;
			SELECT Department,
		SELECT column1,	AVG(Salary) FROM
		aggregate_function(column2) FROM	Employees GROUP BY
	Specifies a search	table_name GROUP BY column1 HAVING	Department HAVING
HAVING	condition for a group	condition;	AVG(Salary) > 50000;
		SELECT column1, column2 FROM	
ORDER		table_name ORDER BY column1	SELECT * FROM Employees
BY	Sorts the result set	[ASC/DESC];	ORDER BY LastName ASC;
	Specifies the maximum		SELECT * FROM Products
	number of records to	SELECT column1, column2 FROM	ORDER BY Price DESC
LIMIT	return	table_name LIMIT number;	LIMIT 10;
			SELECT DISTINCT
	Returns only distinct	SELECT DISTINCT column1, column2	Department FROM
DISTINCT	(different) values	FROM table_name;	Employees;
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