Name: HANGE SHUBHAM SHAHADEV

Company: CODTECH IT SOLUTIONS

ID: CT08DMW

Domain: SQL-Structured Query Language.

Duration: Nov to Januaray 2025

Mentor: Neela Santhosh Kumar

**Overview of the Project**

**Project – SQL Structured Query Language**.

**Objective**

**SQL projects** provide hands-on experience with database design and management and enhance skills in writing efficient queries and understanding relational database concepts, which are essential in database administration, data analysis, and software development.

**Key Activities**

* SQL Practice Exercises for Beginners Basic Retrieval Filtering Arithmetic Operations and Comparisons: Formatting Aggregation Functions
* SQL Practice Exercises for Intermediate Group By and Having Joins Window Functions Conditional Statements DateTime Operations
* SQL Practice Exercises for Advanced Creating and Aliasing Subqueries Indexing Constraints Views Stored Procedures: Transactions

**Technologies Used**

1. TCL (Transaction Control Language)
2. DML (Data Manipulation Language)
3. DCL (Data Control Language)
4. DDL (Data Definition Language)

* The DDL Languages or commands are categorized into five commands which are widely used in the SQL queries:

1. CREATE DDL Command
2. ALTER DDL Command
3. DROP DDL Command
4. TRUNCATE DDL Command
5. RENAME DDL Command

**Key Insights**

**SQL Insights** stores its data in one or more Log **Analytics workspaces.** Before you can enable **SQL Insights,** you need to either create a workspace or select an existing one.

For ex CREATE USER [user] WITH PASSWORD = N'<password>';

GO

GRANT VIEW DATABASE STATE TO [user];

GO