Structured Query Language (SQL)

A Comprehensive Guide to Relational Data Mastery

Data Definition

```
CREATE TABLE employees (
id INTEGER PRIMARY KEY,
name VARCHAR(100),
department VARCHAR(50),
salary DECIMAL(10,2)
);
```

Data Manipulation

```
SELECT
department,
AVG(salary) as avg_salary,
COUNT(*) as employee_count
FROM employees
GROUP BY department;
```

Core Concepts

- Data Types
- Constraints
- Indexes
- Joins
- Subqueries
- Views
- Transactions
- Stored Procedures
- Triggers
- Performance
- Security
- Optimization

From Basic Queries to Advanced Database Management

Structured Query Language Sql A Practical Introduction

Brendan G. Carr

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