

# CypherCreed's

## Learning Path

### Introduction to Database Management System (DBMS)

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## Introduction:

- ★ [Why Database Management System \(DBMS\) is important!](#)

## Motivation:

- ★ Database Administrator - [A day in the life](#)
- ★ [How to choose the right type of database for your enterprise](#) - IDG Contributor Network
- ★ [Choose the Right Database for Your Application](#) - Vivek Ratan
- ★ SQL vs. NoSQL Databases: [What's the Difference?](#)
- ★ [A Guide to Database Technology](#)
- ★ SQL Demystified: [A Brief Primer on Relational Databases](#)

## Learning Path

### 01. Fundamentals

- ★ **Basic Knowledge in Programming** (in C/C++/Java/Python)
- ★ **Learn Data Structures >>>**
  - Refer to CypherCreed's Data Structures & Algorithms Learning Roadmap!
- ★ **Learn Database Management Systems (DBMS) >>>**
  - [In-depth theoretical concepts](#) - NPTEL (IIT KGP)
- ★ **Learn SQL >>> (Choose any one)**
  - [The Complete SQL Bootcamp](#) - Jose Portilla
  - [The Ultimate MySQL Bootcamp: Go from SQL Beginner to Expert](#) - Colt Steele
  - [The Complete Oracle SQL Certification Course](#) - Imtiaz Ahmad
- ★ **Practice >>>**
  - For practicing MySQL - use [W3Schools!](#)

## 02. Professional Certifications

### ★ Microsoft SQL Server Certifications >>> *(following certifications are in progressive order!)*

- Microsoft Technology Associate ([MTA](#))
  - [Exam 98-364 : Database Fundamentals](#)
- MCSA: [SQL 2016 Database Administration](#) *(If chosen!)(Pass the following exams)*
  - [Exam 70-764 : Administering a SQL Database Infrastructure](#)
  - [Exam 70-765 : Provisioning SQL Databases](#)
- MCSA: [SQL 2016 Database Development](#) *(If chosen!)(Pass the following exams)*
  - [Exam 70-761 : Querying Data with Transact-SQL](#)
  - [Exam 70-762 : Developing SQL Databases](#)
- MCSA: [SQL 2016 BI Development](#) *(If chosen!)(Pass the following exams)*
  - [Exam 70-767 : Implementing an SQL Data Warehouse](#)
  - [Exam 70-768 : Developing SQL Data Models](#)

### ★ [Oracle Database Certifications](#) >>>

- [Oracle Database SQL | 1Z0-071](#) *(Entry Level)*
- [Oracle Database 11g](#) *(If chosen!)(Pass the following exams)*
  - Oracle Database 11g: [Administration I](#)
  - Oracle Database 11g: [Administration II](#)
- [Oracle Database 12c](#) *(If chosen!)(Pass the following exams)*
  - Oracle Database 12c: [Administration](#)
  - Oracle Database 12c: [Advanced Administration](#)
- [Oracle Database 12c R2](#) *(If chosen!)(Pass the following exams)*
  - Oracle Database 12cR2: [Administration](#)
  - Oracle Database 12cR2: [Advanced Administration](#)

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## Other Resources:

**Books:** Being present in this modern digital world of unbound opportunities and resources, do you really need a HardCopy of a few pages (which considerably won't update w.r.t to time)?

Think twice! Learn Digitally!

***But if you still wanna read some books, then here it is! >>>***

→ [Database System Concepts 6th edition](#) - Avi Silberschatz, Henry F. Korth, and S. Sudarshan

## Happy Learning!

