SQL Server

Course Overview

-Vijay Mulsaniya

Greetings !

As per our telephonic discussion, I prepare course schedule for you.

Happy learning !

Thank you.
Vijay Mulsaniya

Lesson 01

- Introduction to SQL Server Management studio
- Create-Delete new database.
- Create new table use designer and script.
- Alter table
- Delete table.
- Insert row into table.
- What is Primary key and forign key ? Why RDBMS - Relational database management system ?

Lesson 02

- Check constraint
- Default constraint
- Cascading referential integrity constraint real world use case and examples
- Identity columns for auto increment
- On-Off identity when add new row into table.
- How to get last generate identity value. Real world use case example of last generated identity value.

Lesson 03

- Unique key constraint
- Select statements
- Get distinct records. distinct behaviour with single and multiple columns select.
- Where clause examples.
- Operators and wild cards examples.
- Like operator
- In operator
- Not operator
- Searching and sorting data.

Lesson 04

- Group by consept in SQL
- Sum, Min Max and Average functions.
- Group by multiple columns
- Group by multiple aggration
- Having clause
- Revision of previous lessions.

Lesson 05

- Joins in SQL server
- Inner Join
- Left Join
- Right join
- Full join
- Cross join

Lesson 06

- Advanced or Intelligent Joins
- Self Join

Lesson 07

- Isnull function
- Case When function
- Coalesce function
- Union and Union All

Lesson 08

- What is Stored procedures ?
- Write stored procedure
- Alter stored procedure
- Delete stored procedure
- How to encript stored procedure
- sp_helptext function

Lesson 09

- Stored procedures with output parameter.
- Stored procedure return values
- When to use output parameter over return values.
- Advantage of stored procedures.
- What is SQL injection attack ?

Lesson 10

- string functions
- Left, right, Ltrim and Rtrim function
- Charindex and substring function
- Replicate function

Lesson 11

- Date time functions
- Getdate function
- GetUTCdate function
- IsDate function
- Day, Month, Year and Date name function
- Datepart and DateDiff function
- Cast and Convert function

Lesson 12

- User defined functions in SQL
- Scalar function
- Inline tablevalued function
- Temp table in SQL

Lesson 13

- Indexes in SQL server.
- Cluster and non cluster indexes in SQL
- Unique and non unique index in SQL

Lesson 14

- Views in SQL server
- Why use View ?
- Create View in SQL
- Delete View in SQL
- View limitations.

Lesson 15

- Triggers in SQL server
- Real world use case of trigger.

Lesson 16

- Drived table and CTE in SQL
- Real world use case of CTE (comman table expression)
- Recursive CTE

Lesson 17

- Transaction in SQL server
- Real world example of transaction.
- Commit and rollback transaction
- Transaction Isolation level.

Lesson 18

- Subquries in SQL server
- Corelated Subquries
- Subquries examples

Lesson 19

- Get list of all tables
- Get list of all stored procedures
- Get list of all columns
- Write re-runnable quries

Lesson 19

- Select into statements in SQL
- Table backup using select into statement

Lesson 20

- Rownumber function in SQL
- Rank function in SQL
- Dense rank function in SQL

Lesson 21

- Paging in SQL using offset fetch next
- Generate databse scripts
- Backup and Restore database.

Thanks...