

# SQL Server 2012 Training Syllabus

## Basic Database Concepts

1. Concepts of Data, Metadata, Files
2. Concepts of DBMS
3. Database Models
4. File Management Systems
5. Relational Database Systems
6. Procedural & Non procedural approaches
7. Database Design
8. E.F.Codd's Rules

## Normalization

1. First Normal Form
2. Second Normal Form
3. Third Normal Form

## Introduction to SQL Server

1. Features of SQL Server
2. Different Editions of SQL Server
3. Components of SQL Server
4. Services of SQL Server
5. Comparison of SQL Server with Oracle

## Database Design

1. Logical & Physical database design
2. Relational database design
3. Creating databases

## Management Studio

1. Basics of SQL
2. Data types, expressions, operators
3. Working with Queries & Clauses
4. Creating Databases
5. Creating Tables, Stored Procedures
6. Working with Indexes & Views

## Services and Receivers

1. Service Life cycle
2. Permissions
3. Implementing Services

4. Receiver tag
5. Implementing Receivers

## Data Storage and File System

1. Data Storage and File System Overview

## Data Storage and File System

1. Shared Preferences
2. File System in Android
3. Internal Storage

## SQLite and Content Providers

1. What is SQLite?
2. Creating SQLite Databases
3. DML Operations on Data
4. Cursors and Content Values
5. Sharing Databases Content Provider scenarios
6. Sharing Databases across application boundaries

## Telephony and SMS

1. Telephony
2. Reading Phone device details
3. Reading SIM Details
4. Tracking Cell Location Changes
5. Introducing and Sending SMS and MMS
6. Reading incoming messages

## Location Based Services and Maps

1. Finding current location Location Manager
2. GeoCoding Forward and reverse GeoCoding
3. User Interface - Map View
4. Changing views on the map

## Web Services and Network Connectivity

1. What is Web service?
2. Integrating Web Services
3. SOAP based calling
4. Managing Network Connectivity
5. Monitoring Wi-Fi
6. Bluetooth

## Multimedia

1. Playing Audio and Video
2. Managing Media Controller