

Salesforce Advance Course Contents

Module 1: SOQL Queries Revised

- Difference between SOQL and SOSL Queries
- Hands-on with SOQL queries with all flavors
- List all the functions used in queries
- Building Aggregate queries
- Queries to access details from related Objects

Module 2: More Examples using Collections in Apex Class, Triggers

- Collections in Salesforce
- List
- Set
- Map
- Methods supported for Collections
- Hands-on with Collections in Salesforce
- Best Practices in Apex

Module 3: Dynamic SOQL Queries

- Hands-on exercise for building Dynamic SOQL Queries independent of an Object and Data Modelling.
- What is Dynamic SOQL Query?
- Fetch list of all Objects using Global Describe
- Fetch list of all Fields for selected Object using Describe method
- Accept fields to query for selected object at runtime.
- Execute SOQL query & display result in tabular format.

Module 4: Integration

- Understanding Integration Concept
- Integration Patterns in Salesforce
- Request and Response – Synchronous Integration
- Fire and Forget – Asynchronous Integration
- Bulk APIs
- External Application accessing Salesforce Data
- Callout Limits
- Difference between SOAP and REST
- Salesforce WSDLs: Enterprise WSDL and Partner WSDL
- Difference between Enterprise WSDL and Partner WSDL
- Hands-on with Salesforce Integration
- Integration using SOAP protocol with XML format
- Accessing Salesforce REST Resources through Workbench
- Accessing Salesforce REST Resources through Postman with OAuth2.0 authentication.
- Integration with external Application using RESTful Services with JSON format
- Best Practices for Integration

Module 5: Authentication

Authentication and Authorization Concepts

Concepts –

- Identity Provider (IdP)
- Service Provider (SP)
- Authorization Code and Token
- SAML
- Single-Sign-on
- Common types Authentication –
- login.salesforce.com
- IdP Initiated
- Service Provider (SP) Initiated
- SAML Based Authentication

- OAuth Based Authentication
- Hands-on: Single Sign-On with Google as IdP

Module 6: Deployment Tools

- Change Sets
- ANT Migration
- Force.com IDE
- Workbench
- Hands-on Deployment with –
- ANT Migration
- Workbench