Salesforce Development

Section 1 – Object

- **Fields**
- **Page Layout**
- **Lightning record pages**
- **Button, Links and action**
- **Compact Layout**
- **Field Set**
- **Object Limit**
- **Record Types**
- **Related Lookup Filter**
- **Search Layout**
- **Hierarchy Column**
- **Validation Rule**
- **Schema Builder**

*1. Create a program that retrieves the field metadata for a given object in Salesforce and displays the field names and data types.
*2. Design a program that dynamically generates a page layout based on user input for a Lightning record page in Salesforce.
*3. Develop a program that allows users to create custom buttons, links, and actions for a specific object in Salesforce.
*4. Implement a program that generates a compact layout for a given object in Salesforce, displaying only essential fields.
*5. Build a program that allows users to define and manage field sets for a specific object in Salesforce.
*6. Create a program that retrieves and displays the object limit information for a Salesforce org.
*7. Develop a program that allows users to manage record types for a specific object in Salesforce, including creating, updating, and deleting them.
*8. Implement a program that applies a related lookup filter to a specific object in Salesforce, restricting the available lookup values based on specified criteria.
*9. Build a program that dynamically generates a search layout for a given object in Salesforce, allowing users to customize the search fields and their order.
*10. Create a program that retrieves the hierarchy column information for a specific object in Salesforce and displays the parent-child relationship between records.

#1. Develop a program that allows users to define and enforce validation rules for fields on a specific object in Salesforce.
#2. Implement a program that generates a visual representation of the schema using Schema Builder in Salesforce,

displaying object relationships and field details.

#3. Build a program that retrieves and displays the page layouts available for a specific object in Salesforce.

#4. Create a program that allows users to add, remove, and reorder buttons, links, and actions on a specific page layout in Salesforce.

#5. Develop a program that retrieves and displays the compact layouts available for a specific object in Salesforce.

#6. Implement a program that allows users to create and manage field sets for a specific object in Salesforce, including adding and removing fields.

#7. Build a program that retrieves and displays the current usage and limits for different object types in a Salesforce org.

#8. Create a program that allows users to create and manage record types for a specific object in Salesforce, including assigning page layouts and picklist values.

#9. Develop a program that allows users to define and apply related lookup filters to restrict lookup values on a specific object in Salesforce.

#10. Implement a program that dynamically generates a search layout for a given object in Salesforce, allowing users to select and order search fields based on their requirements.

Section 2 – Access to the Object

- **Profiles**
- **OWD(Sharing Setting)**
- **Permission Set**

*1. Create a program that lists all the profiles in a Salesforce org.

*2. Develop a program that displays the permissions assigned to a specific profile in Salesforce.

*3. Implement a program that allows users to create a new profile in Salesforce with predefined permissions.

*4. Build a program that retrieves and displays the object-level permissions for a given profile in Salesforce.

*5. Create a program that assigns a permission set to a specific profile in Salesforce.

*6. Develop a program that checks and displays the sharing settings (OWD) for a specific object in Salesforce.

*7. Implement a program that allows users to update the sharing settings (OWD) for a specific object in Salesforce.

*8. Build a program that retrieves and displays the sharing rules associated with a specific object in Salesforce.

*9. Create a program that lists all the permission sets available in a Salesforce org.

*10. Develop a program that displays the permissions assigned to a specific permission set in Salesforce.

#1. Implement a program that allows users to create a new permission set in Salesforce with predefined permissions.

#2. Build a program that retrieves and displays the object-level permissions for a given permission set in Salesforce.

#3. Create a program that assigns a permission set to a specific user in Salesforce.

#4. Develop a program that checks and displays the default sharing access for a specific object in Salesforce.

#5. Implement a program that allows users to update the default sharing access for a specific object in Salesforce.

#6. Build a program that retrieves and displays the sharing rules associated with a specific object in

Salesforce.
#7. Create a program that lists all the profiles that have access to a specific custom object in Salesforce.
#8. Develop a program that displays the field-level security settings for a specific profile in Salesforce.
#9. Implement a program that allows users to update the field-level security settings for a specific profile in Salesforce.
#10. Build a program that retrieves and displays the permission sets assigned to a specific user in Salesforce.

Section 3 – Access to the record

- **Roles and role Hierarchy**
- **Groups**
- **Sharing Rules**
- **Manual Sharing**
- **Queue**

*1. Create a program that retrieves and displays all the roles in a Salesforce org.
*2. Develop a program that allows users to create a new role in Salesforce.
*3. Implement a program that checks and displays the role hierarchy in Salesforce.
*4. Build a program that retrieves and displays the users assigned to a specific role in Salesforce.
*5. Create a program that lists all the groups in a Salesforce org.
*6. Develop a program that allows users to create a new group in Salesforce.
*7. Implement a program that checks and displays the members of a specific group in Salesforce.
*8. Build a program that retrieves and displays the sharing rules associated with a specific object in Salesforce.
*9. Create a program that allows users to create a new sharing rule for a specific object in Salesforce.
*10. Develop a program that checks and displays the manual sharing entries for a specific record in Salesforce.

#1. Implement a program that allows users to manually share a record with another user or group in Salesforce.
#2. Build a program that retrieves and displays the members of a specific queue in Salesforce.
#3. Create a program that allows users to create a new queue in Salesforce.
#4. Develop a program that checks and displays the ownership and access settings for a specific record in Salesforce.
#5. Implement a program that allows users to manually transfer ownership of a record to another user in Salesforce.
#6. Build a program that retrieves and displays the sharing rules associated with a specific object in Salesforce.
#7. Create a program that allows users to update the sharing rules for a specific object in Salesforce.
#8. Develop a program that checks and displays the manual sharing entries for a specific record in Salesforce.
#9. Implement a program that allows users to remove manual sharing entries for a specific record in Salesforce.
#10. Build a program that retrieves and displays the members of a specific queue in Salesforce.

Section 4 – Workflow Action

- **Email Alert**
- **Workflow Rule**
- **Send Action**
- **Task**
- **Outbound Message**

*1. Create a program that sends an email alert to a specified recipient when a certain condition is met in Salesforce.
*2. Develop a program that allows users to create a workflow rule in Salesforce to automate certain actions.
*3. Implement a program that triggers a workflow rule to send an email alert when a record meets specific criteria.
*4. Build a program that sends a custom email notification using an email template and Apex code in Salesforce.
*5. Create a program that allows users to define and manage email templates for different objects in Salesforce.
*6. Develop a program that sends an email alert to a designated user or group when a specific event occurs in Salesforce.
*7. Implement a program that creates a task for a user based on certain conditions in Salesforce.
*8. Build a program that assigns a task to a specific user or group in Salesforce.
*9. Create a program that allows users to define and manage task templates for different objects in Salesforce.
*10. Develop a program that triggers a workflow rule to create a task for a user when specific conditions are met in Salesforce.

#1. Implement a program that sends an outbound message to an external system when a record is updated in Salesforce.
#2. Build a program that allows users to define and manage outbound messages for integration purposes in Salesforce.
#3. Create a program that triggers a workflow rule to send an outbound message to an external system when specific criteria are met in Salesforce.
#4. Develop a program that allows users to define and manage workflow rules for different objects in Salesforce.
#5. Implement a program that sends a follow-up email to a customer based on a specific action or event in Salesforce.
#6. Build a program that automates the creation of tasks for different stages of a sales process in Salesforce.
#7. Create a program that sends an email alert to a designated user or group when a record is assigned to them in Salesforce.
#8. Develop a program that allows users to define and manage email alert templates for different objects in Salesforce.
#9. Implement a program that triggers a workflow rule to send an email alert when a record is created or updated with specific values in Salesforce.
#10. Build a program that automatically sends an email notification to a customer when their support ticket status changes in Salesforce.

Section 5 – Automation Processes

- **Process Buildert**
- **Flow**
- **Approval Process**

*1. Create a program that allows users to define and manage process builder rules for a specific object in Salesforce.
*2. Develop a program that triggers a process builder to perform a specific action when certain conditions are met in Salesforce.
*3. Implement a program that checks and displays the current flow versions available in a Salesforce org.
*4. Build a program that allows users to create and manage flows for different business processes in Salesforce.
*5. Create a program that triggers a flow to automate a series of tasks and actions based on specific criteria in Salesforce.

#1. Develop a program that allows users to define and manage approval processes for a specific object in Salesforce.
#2. Implement a program that checks and displays the current approval process settings for a record in Salesforce.
#3 Build a program that triggers an approval process when a record meets specific criteria in Salesforce.
#4. Create a program that allows users to define and manage approval steps and criteria for a specific approval process in Salesforce.
#5. Develop a program that displays the approval history and current status of a record in Salesforce, including the approvers and their decisions.

Section 6 – Triggers

- **Context Variables**
- **Trigger events**
- **Bulkification**
- **Governor Limits**

*1. Create a program that demonstrates the usage of context variables in an Apex trigger in Salesforce.
*2. Develop a program that triggers a specific action based on different trigger events, such as before insert, after update, or before delete, in Salesforce.
*3. Implement a program that demonstrates bulkification techniques to process large sets of records efficiently in a Salesforce trigger.
*4. Build a program that analyzes and manages governor limits in Salesforce to ensure compliance and optimize performance.
*5. Create a program that showcases the use of context variables in a flow in Salesforce.

#1. Develop a program that triggers a flow based on different events, such as record creation or update, in Salesforce.
#2. Implement a program that demonstrates bulkification techniques when working with large data sets in a flow in Salesforce.
#3. Build a program that analyzes and monitors governor limits when executing a flow in Salesforce.
#4. Create a program that utilizes context variables in a Visualforce page controller in Salesforce.

#5. Develop a program that triggers specific actions or logic based on different events or user interactions in a Visualforce page in Salesforce.

Section 7 – Classes

- **Handler Classes**
- **Batch Class**
- **Schedulable Class**

*1. Create a program that demonstrates the usage of handler classes to centralize and manage exception handling in Salesforce.
*2. Develop a program that utilizes a batch class to process large volumes of data asynchronously in Salesforce.
*3. Implement a program that schedules a schedulable class to run at a specified time or on a recurring basis in Salesforce.
*4. Build a program that demonstrates the usage of a handler class to handle governor limit exceptions in a batch class in Salesforce.
*5. Create a program that showcases the implementation of a batch class to perform data manipulation operations on multiple records in Salesforce.

#1. Develop a program that schedules a schedulable class to execute a specific business logic or process at regular intervals in Salesforce.
#2. Implement a program that demonstrates the usage of a handler class to manage exception handling in a schedulable class in Salesforce.
#3. Build a program that utilizes a batch class to perform complex data transformations and calculations on a large dataset in Salesforce.
#4. Create a program that showcases the implementation of a schedulable class to automate data updates or record processing in Salesforce.
#5. Develop a program that demonstrates the usage of a handler class to handle errors and exceptions in a schedulable class, providing detailed logging and notification in Salesforce.