



Capstone Project Report
On
“Travel App & Code Playground App”

Submitted by:

Name: LAVNEESH SAINI

Batch: Wipro Salesforce B13 (WIP-SF-13)

LMS Id: MGSA_507

Date: 27/02/2023

GitHub: https://github.com/lavneesh007/Capstone_MGSA_507_Lavneesh_Saini.git

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Abstract

Salesforce, Inc. is an American cloud-based software company headquartered in San Francisco, California. It provides customer relationship management (CRM) software and applications focused on sales, customer service, marketing automation, analytics, and application development.

Salesforce's main technologies are tools for customer management. Other products enable customers to create apps, integrate data from other systems, visualize data, and offer training courses.

Force.com applications are built using declarative tools, backed by Lightning and Apex, a proprietary Java-like programming language for Force.com, as well as Visualforce, a framework including an XML syntax typically used to generate HTML. The Force.com platform typically receives three complete releases a year. As the platform is provided as a service to its developers, every single development instance also receives all these updates.

In this Project we work on the Creation of the Travel App, with custom Objects and fields and Flows to Automate the process of records, the Creation of the Approval process, modifying the user interface, and creating reports and dashboards for analytics purposes.

In this Project, we also develop the Code Playground app through a coding approach, by using Apex Classes and Triggers we extend the functional capabilities of the App.

Introduction

Salesforce is a cloud-based software company that provides its customers with a platform to develop their own applications without following the tough steps that they used to follow in the legacy system. The software or application once created can be uploaded onto the cloud allowing the end-users to view them.

Salesforce is currently providing various software solutions and platforms for developers to create and distribute custom software/applications. Tech giants like Google, Twitter, Amazon, and Facebook are using Salesforce either in the form of SaaS or PaaS.



Salesforce developers can make an application on the cloud and share it with multiple companies across multiple domains by using Salesforce.

Talking about HR systems, every company across the globe has an HR team. Each HR team would require an HR application to store employee records. Almost all specifications for such an application would be common for all companies. So, as a developer, it would be very easy to create a Salesforce application for such specifications, post it onto the cloud, and provide it as a service to multiple clients at the same time. Maintenance of the same can be done altogether too. So basically, the problem of scalability gets eliminated.

Flow of the Project



Software Requirements

For the fastest and most stable experience, we recommend:

- An Octane 2.0 score of 30,000 or greater
- Network latency of 150ms or less
- Download speed of 3 Mbps or greater
- At least 8 GB of RAM, with 3 GB available for Salesforce browser tabs

Minimum requirements are:

- An Octane 2.0 score of 20,000 or greater
- Network latency of 200ms or less
- Download speed of 1 Mbps or greater
- At least 5 GB of RAM, with 2 GB available for Salesforce browser tabs

OR

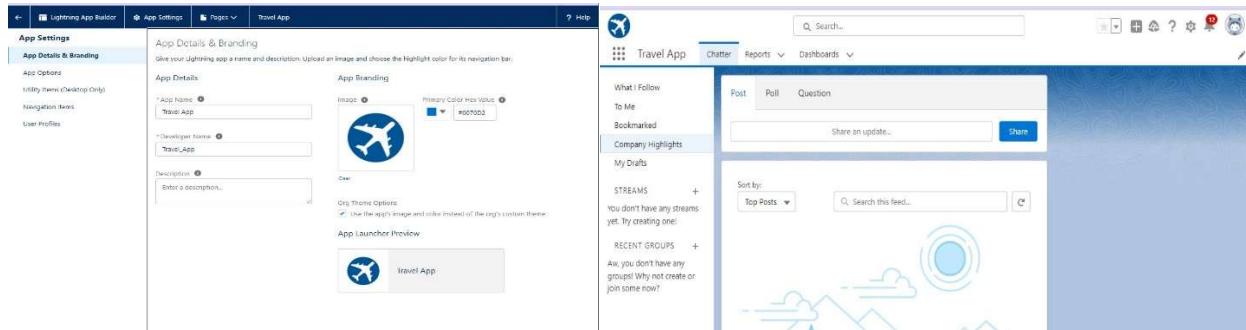
Requirements	
Windows	
Operating system	Windows 8.1 64-bit, Windows 8 64-bit, Windows 7 Service Pack 1 64-bit, Windows Vista Service Pack 2 64-bit
CPU	Core 2 Quad Q6600 at 2.4 GHz or AMD Phenom 9850 at 2.5 GHz
Memory	4 GB RAM
Free space	65 GB of free space
Graphics hardware	DirectX 10-compatible GPU: GeForce 9800GT 1GB or ATI Radeon HD 4870 1GB
Sound hardware	DirectX 10 compatible sound card

Screenshots

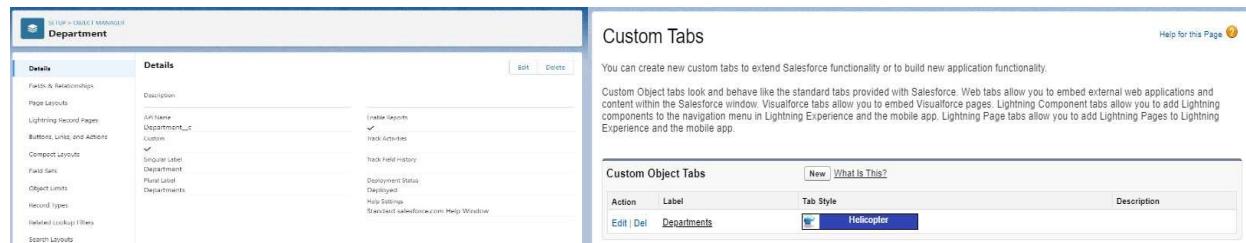
Module 1:

Exercise 1

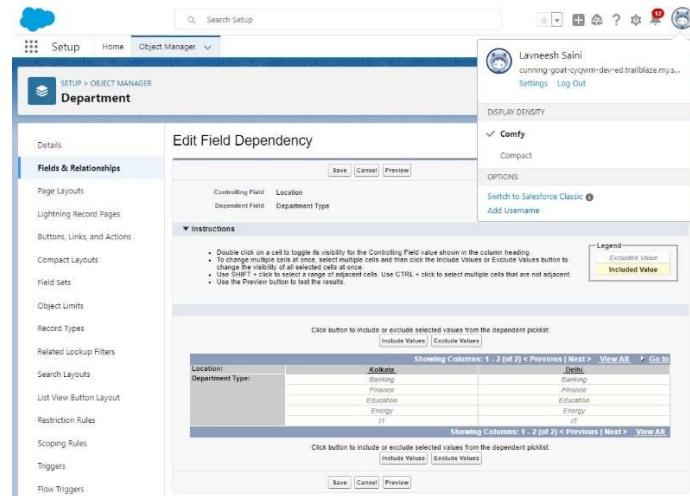
Step 1:



Step 2:



Step 3:



Step 4:

The screenshots show the Salesforce Setup interface:

- New Custom Object:** A screenshot of the "New Custom Object" page under "Custom Object Definition". It shows fields like "Label" (Travel Approval), "Object Type" (Standard Object), and "Fields & Relationships".
- Tabs:** A screenshot of the "Custom Tabs" section under "Setup". It lists two tabs: "Departments" (Helicopter) and "Travel Approvals" (Car). The "Travel Approvals" tab is highlighted.
- Travel Approval:** A screenshot of the "Travel Approval" object's "Fields & Relationships" page. It lists fields such as "Created By", "Last Modified By", "Owner", "Purpose Of Trip", "Status", "Trip End Date", and "Trip Start Date".

Step 5:

The screenshots show the Salesforce Setup interface and a custom app:

- Bulk Data Load Jobs:** A screenshot of the "Bulk Data Load Jobs" page under "Data Import Wizard". It shows a table with columns like "Job ID", "Last Run Date", "Last Run Status", and "Last Run User".
- Travel App:** A screenshot of a custom app named "Travel App" with tabs for "Chatter", "Reports", "Dashboards", "Departments", and "Travel Approvals". The "Departments" tab is selected, showing a list of departments from 1 to 16.

Exercise 2:

Step 1:

The image shows two views of a Travel Approval record: a classic Edit screen on the left and a modern Lightning Record Detail view on the right.

Left (Edit Screen):

- Travel Approval #: TA00001
- Status: Draft
- Owner: Lavneesh Saini
- Department: Technology
- Out Of State: checked
- Destination State: CA
- Trip Info:**
 - Purpose Of Trip: Attend Dreamforce
 - Trip Start Date: 23/02/2023
 - Trip End Date: 27/03/2023
- Created By: Lavneesh Saini (22/02/2023, 12:50 pm)
- Last Modified By: Lavneesh Saini (26/02/2023, 11:19 am)

Right (Lightning Record Detail View):

- Travel Approval #: TA00001
- Status: Draft
- Owner: Lavneesh Saini
- Department: Technology
- Out Of State: checked
- Destination State: CA
- Trip Info:**
 - Purpose Of Trip: Attend Dreamforce
 - Trip Start Date: 23/02/2023
 - Trip End Date: 27/03/2023
- Created By: Lavneesh Saini (22/02/2023, 12:50 pm)
- Last Modified By: Lavneesh Saini (26/02/2023, 11:19 am)

The Lightning view includes Chatter, Activity, and Upcoming & Overdue sections.

Step 2:

The image shows the Setup Object Manager for the Expense Item object.

Left Sidebar (Object Manager):

- Details
- Fields & Relationships
- Page Layouts
- Lightning Record Pages
- Buttons, Links, and Actions
- Compact Layouts
- Field Sets
- Object Limits
- Record Types
- Related Lookup Filters
- Restriction Rules

Right Main Area (Expense Item Details):

Details

- Description
- API Name: Expense_Item__c
- Custom: ✓
- Singular Label: Expense Item
- Plural Label: Expense Items
- Enable Reports: ✓
- Track Activities
- Track Field History
- Deployment Status: Deployed
- Help Settings: Standard salesforce.com Help Window

Buttons: Edit, Delete

Step 3:

The screenshot shows the Salesforce Setup interface under Object Manager for the Expense Item object. The left sidebar lists options like Details, Fields & Relationships, Page Layouts, Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, and Restriction Rules. The main area displays the Fields & Relationships section with the following details:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FILED	INDEXED
Amount	Amount_c	Currency(16, 2)		
Created By	CreatedById	Lookup(User)		
Expense Item Number	Name	Auto Number		
Expense Type	Expense_Type__c	Picklist		
Last Modified By	LastModifiedById	Lookup(User)		
Travel Approval	Travel_Approval__c	Master-Detail(Travel Approval)		

Step 4:

The screenshot shows the Travel App interface with the Travel Approvals tab selected. The page title is "Travel Approvals > TA00001". Below it, the "Expense Items" section is displayed. The table shows the following data:

Expense Item Number	Expense Type	Amount
E - 00001	Airfare	₹450.00
E - 00002	Hotel	₹870.00

Step 5:

The screenshot shows the Salesforce Setup interface under Object Manager for the Users object. The left sidebar lists options like Permission Set Groups, Permission Sets, Profiles, Public Groups, Queues, Roles, User Management Settings, and Users. The main area displays the User Detail section for a user named "Eric Executive".

User Detail

Name	Role	User License	Profile
Eric Executive	CEO	Salesforce	System Administrator
Alias			
Email			
Username			
Nickname	User16770786709099646340		
Title	Marketing User		
Company	Offline User		
Division	Flow User		
Address	Service Cloud User		
Time Zone	(GMT+05:30) India Standard Time	Site.com Publisher User	
Locale	English (India)	WDC User	
Language	English	Mobile Push Registration	
Delegated Approver		Data.com User Type	
Manager		Accessibility Mode (Classic Only)	
Receive Approval Request Emails	Only if I am an approver	Debug Mode	
Federation ID		High-Contrast Palette on Charts	
App Registration		Load Balancing	
One-Time Password Authenticator		Pages Without Scrolling	

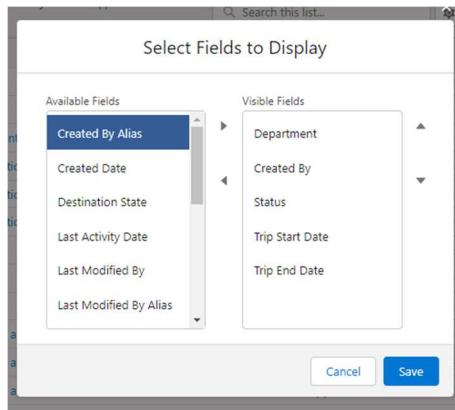
Step 6:

The screenshot shows the 'Users' setup page in Salesforce. The 'Approver Settings' section is highlighted with a red box. It contains fields for 'Delegated Approver' (set to 'Eric Executive'), 'Manager' (set to 'Eric Executive'), and a dropdown for 'Receive Approval Request Emails' (set to 'Only if I am an approver'). Other sections visible include 'Mailing Address', 'Single Sign On Information', and 'Locale Settings'. At the bottom are 'Save', 'Save & New', and 'Cancel' buttons.

Step 7:

The screenshot shows the 'Travel Approval' object's search layout configuration. The 'Selected Fields' list includes 'Travel Approval #', 'Purpose Of Trip', 'Department', 'Status', 'Destination State', 'Trip Start Date', and 'Trip End Date'. The 'Available Fields' list includes 'Record ID', 'Out Of State', 'Total Expenses', 'Owner Alias', 'Owner First Name', 'Owner Last Name', 'Created By Alias', 'Created By', 'Created Date', 'Last Modified By Alias', 'Last Modified By', and 'Last Modified'. A checkbox for 'Override the search result column customizations for all users' is checked. At the bottom are 'Save' and 'Cancel' buttons.

Step 8:



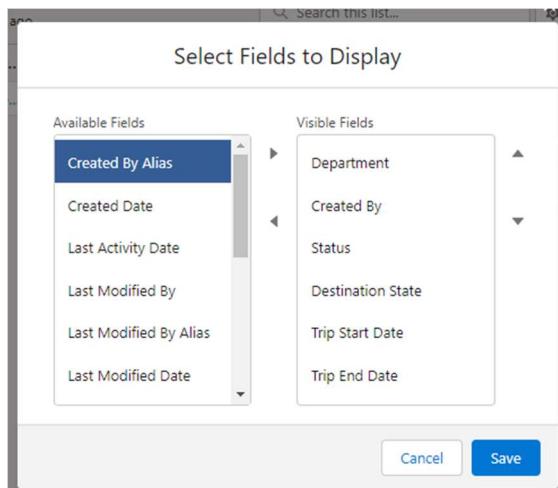
Step 9:

The screenshot shows a list view titled "Travel Approvals" with a filter bar at the top. The filter bar includes dropdowns for "Dep...", "Creat...", "Sta...", "D...", "Trip St...", and "Trip E...". Below the filter bar, there is a "Filters" section containing the following conditions:

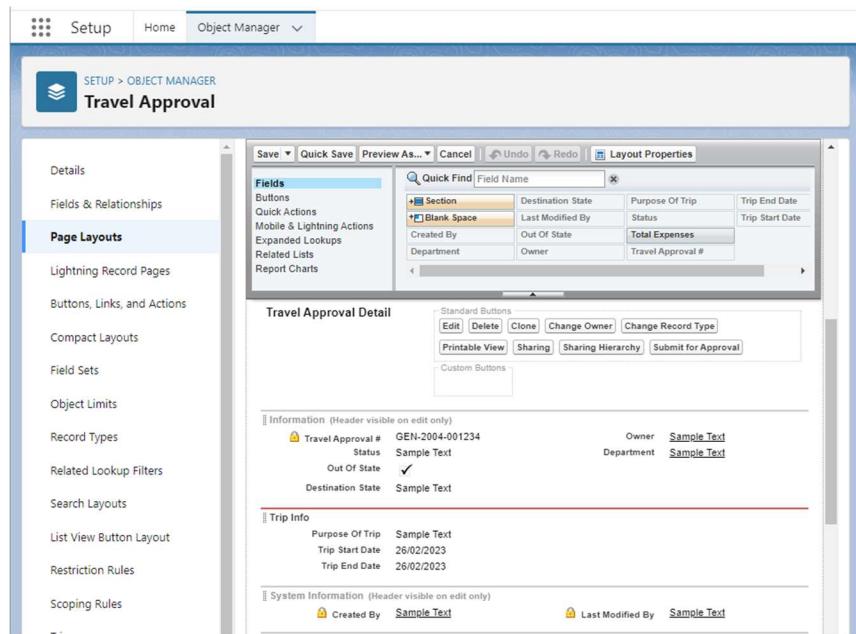
- Filter by Owner: All travel approvals
- Matching all of these filters
 - Out Of State equals True
 - Status not equal to Approved, Rejected

At the bottom of the filters section are buttons for "Add Filter", "Remove All", and "Add Filter Logic".

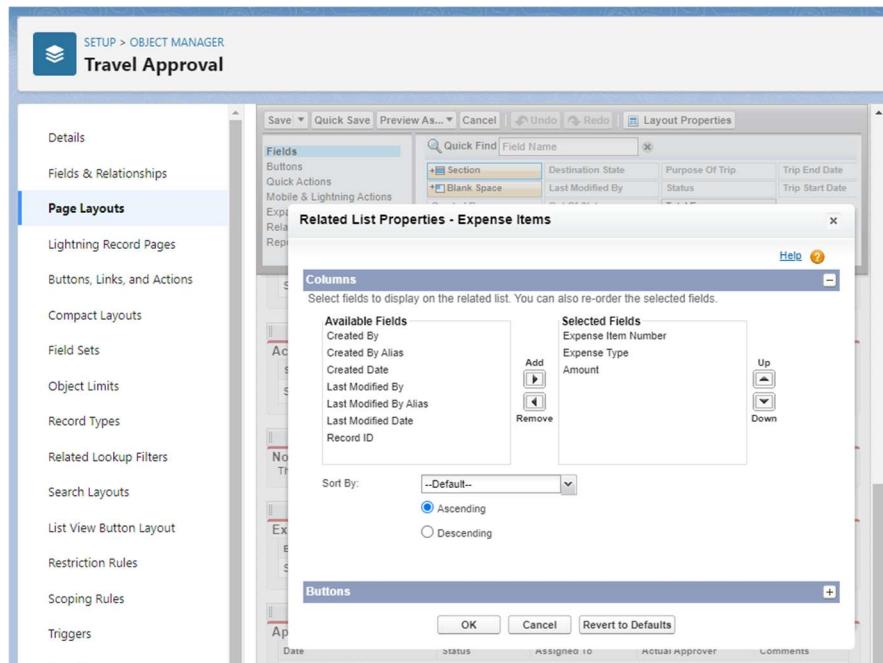
Step 10:



Step 11:



Step 12:



Step 13:

Feed Tracking

Enable feed tracking for objects so users can follow records of that object type. Select fields to track so users can see feed updates when those fields are changed on records they follow.

Fields in travel approvals

You can select up to 9 fields.

Enable Feed Tracking

Related Objects

Travel Approvals

Travel App

Chatter Reports Dashboards Departments Travel Approvals

What I Follow To Me Bookmarked Company Highlights My Drafts

STREAMS You don't have any streams yet. Try creating one!

RECENT GROUPS Aw, you don't have any groups! Why not create or join some now?

Post Poll Question Share an update... Share

Sort by: Top Posts Search this feed...

Lavneesh Saini 23 February 2023 at 10:36 am @Eric Executive Which Department should I associate this travel request?

Like Comment Share 1 comment Seen by 1

Eric Executive 3 days ago Technology is the correct department. Like

Write a comment...

Einstein Recommendations

Eric Executive Your manager

Integration User Joined in the last week

Security User Joined in the last week

Travel Approval TA00001

Travel App Chatter Reports Dashboards Departments Travel Approvals

+ Follow New Contact New Opportunity New Case

Related Details

Travel Approval # TA00001 Owner Lavneesh Saini

Status Draft Department Technology

Out Of State ✓ Destination State CA

Trip Info

Purpose Of Trip Attend Dreamforce

Trip Start Date 23/02/2023

Trip End Date 27/03/2023

Created By Lavneesh Saini Last Modified By Lavneesh Saini

22/02/2023, 12:50 pm 26/02/2023, 11:19 am

Activity Chatter

Filters: All time • All activities • All types Refresh • Expand All • View All

Upcoming & Overdue

No activities to show. Get started by sending an email, scheduling a task, and more.

No past activity. Past meetings and tasks marked as done show up here.

Module 2:

Exercise 1:

Step 1:

The screenshot shows the Salesforce Object Manager interface for the 'Travel Approval' object. On the left, a sidebar lists various setup options like Details, Fields & Relationships, Page Layouts, and Validation Rules. The main content area displays the 'Travel Approval Validation Rule' configuration. The rule is named 'Trip_end_date_after_start_date' and is active. The error condition formula is 'Trip_End_Date__c <= Trip_Start_Date__c', with an error message stating that trip end date must be greater than or equal to start date. The business logic is described as 'Trip end date after start date'. The rule was created by Lavneesh Saini on 23/02/2023 at 3:03 pm and modified by the same user on 23/02/2023 at 3:57 pm.

Step 2:

The screenshot shows the Salesforce Object Manager interface for creating a custom field named 'Total Expenses' on the 'Travel Approval' object. The 'Fields & Relationships' tab is selected in the sidebar. The custom field definition edit screen shows the following details:

- Field Information:** Field Label: 'Total Expenses', Field Name: 'Total_Expenses', Description: 'Total Expenses', Help Text: 'Total Expenses', Data Owner: 'User', Field Usage: 'None', Data Sensitivity Level: 'None', Compliance Categorization: 'Available' (with 'PCI' selected).
- Roll-Up Summary Options:** Data Type: 'Roll-Up Summary', Calculation Options: 'Automatic calculation (Recommended)' (selected), 'Force a mass recalculation of this field' (unchecked).
- Select Object to Summarize:** Master Object: 'Travel Approval', Summarized Object: 'Expense Items'.
- Select Roll-Up Type:** 'SUM' is selected, with 'Field to Aggregate' set to 'Amount'.
- Filter Criteria:** 'All records should be included in the calculation' is selected.

Step 3:

The screenshot shows the Salesforce Setup interface with the search bar set to "static". Under "Custom Code", the "Static Resources" link is selected. The main content area is titled "Static Resources" and displays two entries:

Action	Name	Namespace Prefix	Description	MIME Type	Size	Created By	Alias
Edit Del	StatusImages		v4.1.1 A promise-based library for securely communicating with iframes via postMessage. https://github.com/Aaronius/penpal	application/x-zip-compressed	39,130	L.Sain	
	tt_penpal	trihdtips		text/javascript	5,894	L.Sain	

Step 4:

The screenshot shows the Salesforce Object Manager with the "Travel Approval" object selected. On the left, the "Fields & Relationships" section is expanded, showing various layout and action options. The main content area shows the "Status Indicator" custom field definition:

Custom Field Definition Detail

Field Label	Status Indicator	Object Name	Travel Approval
Field Name	Status_Indicator		
API Name	Status_Indicator__c		
Description			
Help Text			
Data Owner			
Field Usage			
Data Sensitivity Level			
Compliance Categorization			
Created By	Lavneesh Saini	Created	26/02/2023, 11:45 am
Modified By	Lavneesh Saini	Modified	26/02/2023, 11:45 am

Formula Options

Data Type: Formula

```
IF( ISPICKVAL( Status__c , 'Approved') , IMAGE("/resource/StatusImages/thumbs-up.png", "Accepted", 20, 20),  
IF ( ISPICKVAL( Status__c , 'Rejected') , IMAGE("/resource/StatusImages/thumbs-down.png", "Rejected", 20, 20),  
IMAGE("/resource/StatusImages/draft.png", "In-Process", 20, 20)))
```

Step 5:

Configure Start

Select Object: Travel Approval

Configure Trigger: A record is created or updated

Set Entry Conditions: None

Optimize the Flow for: Fast Field Updates

Edit Decision

Is Travel Out of State? (Is_Travel_Out_of_State)

Outcomes: Yes Out of State, In State

Default Outcome: All Conditions Are Met (AND)

Resource: \$Record.Destination State X, Operator: Does Not Equal, Value: TX

When to Execute Outcome: Only if the condition requirements are met

Edit Update Records

Update Travel Approval Record (Update_Travel_Approval_Record)

How to Find Records to Update and Set Their Values: Use the travel approval record that triggered the flow

Set Filter Conditions: Condition Requirements to Update Record: None—Always Update Record

Set Field Values for the Travel Approval Record: Out_Of_State__c: True

Edit Update Records

Update Travel Approval Record (Update_Travel_Approval_Record)

How to Find Records to Update and Set Their Values: Use the travel approval record that triggered the flow

Set Filter Conditions: Condition Requirements to Update Record: None—Always Update Record

Set Field Values for the Travel Approval Record: Out_Of_State__c: False

Flow Builder

Out of State Travel Flag - V2

Version 2: Active—Last modified 2 days ago

Toolbox: Elements Manager (Logic: Assignment, Decision, Loop, Collection Sort, Collection Filter; Data: Update Records, Get Records)

Flow Diagram:

```

graph TD
    Start((Start)) --> Decision{Decision  
Is Travel Out of State?}
    Decision -- "Yes Out of State" --> Update1[Update Records  
Update Travel Approval Record]
    Decision -- "In State" --> Update2[Update Records  
Update Travel Approval Record]
    
```

Step 6:

The screenshot shows the Salesforce Setup interface for managing Approval Processes. The left sidebar has a search bar with 'approv' typed in, and the 'Approval Processes' option is selected under the 'Process Automation' section. A message at the top says 'Didnt find what you're looking for? Try using Global Search.' The main content area is titled 'Approval Processes' and shows the details for the 'Travel Approval: Travel Approval Request' process.

Process Definition Detail

Process Name	Description	Active	
Travel_Approval_Request	True	✓	
Unique Name	Travel_Approval_Request	Next Automated Approver Determined By	
Description	Administrator ONLY	Manager of Record Submitter	
Entry Criteria	Record Editability	Allow Submitters to Recall Approval Requests	
Approval Assignment Email Template			
Initial Submitters	Travel Approval Owner		
Created By	Lavneesh Saini, 24/02/2023, 10:30 am	Modified By	Lavneesh Saini, 24/02/2023, 10:34 am

Initial Submission Actions

Action	Type	Description
Show Actions	Record Lock	Lock the record from being edited

Approval Steps

Action	Step Number	Name	Description	Criteria	Assigned Approver	Reject Behavior
Show Actions	1	Step 1			Manager	Final Rejection
Show Actions	2	Travel_Coordinator_Approval	Travel Approval: Out Of State EQUALS True		User Eric Executive	Final Rejection

Final Approval Actions

Action	Type	Description
Edit	Record Lock	Lock the record from being edited
Edit / Remove	Field Update	Set Status to Approved

Final Rejection Actions

Action	Type	Description
Edit	Record Lock	Unlock the record for editing
Edit / Remove	Field Update	Set Status to Rejected

Recall Actions

Action	Type	Description
	Record Lock	Unlock the record for editing

At the bottom, there are navigation links: 'Back To This' and 'Always show me more records in related list'.

Exercise 2:

Step 1:

Import your Data into Salesforce
You can import up to 30,000 records at a time.

What kind of data are you importing? **Travel Approvals**

What do you want to do? **Add new records**

Where is your data located? **Drop CSV file here to upload**

Edit	Mapped Salesforce Object	CSV Header	Example	Example	Example
Change	Department	Department	Office of Co	Disability De	Division of Disability and Rehabilitative Services
Change	Destination State	Destination State	FL	OK	OK
Change	Purpose Of Trip	Purpose of Trip	White-Kulch	Ranolfsson,	Homenick, Waters and Gusikowski
Change	Trip Start Date	Trip Start Date	6/14/19	10-01-2019	04-03-2019
Change	Trip End Date	Trip End Date	6/15/19	10-01-2019	04-06-2019
Change	Status	Status	Approved	Approved	Rejected

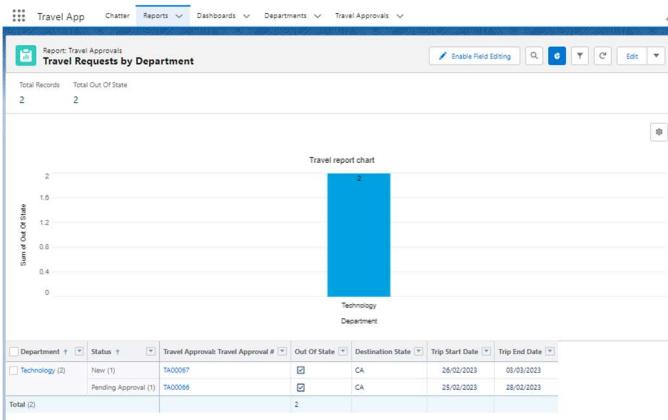
Travel Approvals

All

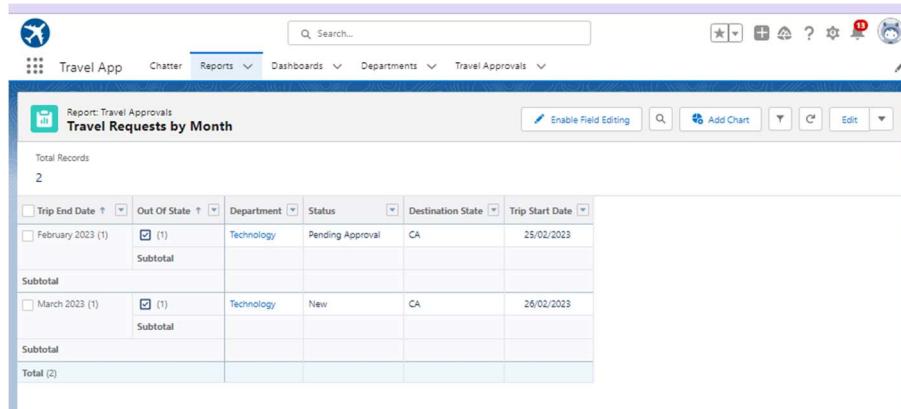
35 items • Sorted by Department • Filtered by All travel approvals • Updated a few seconds ago

Department ↑	Created By	Status	Trip Start Date	Trip End Date
1 Audit Services	Lavneesh Saini	Approved	07/08/2019	07/09/2019
2 Audit Services	Lavneesh Saini	Approved	11/04/2019	11/07/2019
3 Contract Management	Lavneesh Saini	Approved	07/05/2019	07/08/2019
4 Disability Determination Bureau	Lavneesh Saini	Rejected	03/06/2019	03/07/2019
5 Disability Determination Bureau	Lavneesh Saini	Rejected	07/05/2019	07/09/2019
6 Disability Determination Bureau	Lavneesh Saini	Approved	07/04/2019	07/10/2019
7 Division of Aging	Lavneesh Saini	Approved	11/05/2019	11/11/2019
8 Division of Aging	Lavneesh Saini	Approved	01/03/2019	01/07/2019
9 Division of Aging	Lavneesh Saini	Approved	09/02/2019	09/03/2019
10 Division of Disability and Rehabilitative Services	Lavneesh Saini	Rejected	04/03/2019	04/06/2019
11 Division of Disability and Rehabilitative Services	Lavneesh Saini	Approved	11/06/2019	11/12/2019
12 Division of Disability and Rehabilitative Services	Lavneesh Saini	Approved	10/11/2019	10/12/2019
13 Division of Family Resources	Lavneesh Saini	Rejected	11/04/2019	11/11/2019
14 Division of Family Resources	Lavneesh Saini	Rejected	11/03/2019	11/05/2019
15 Division of Finance	Lavneesh Saini	Approved	02/01/2019	02/04/2019
16 Division of Finance	Lavneesh Saini	Rejected	12/05/2019	12/06/2019
17 Division of Finance	Lavneesh Saini	Rejected	06/09/2019	06/12/2019
18 Division of Mental Health and Addiction	Lavneesh Saini	Approved	11/05/2019	11/09/2019
19 Human Resources	Lavneesh Saini	Approved	07/09/2019	07/11/2019
20 Human Resources	Lavneesh Saini	Approved	05/02/2019	05/12/2019
21 Legislative Services	Lavneesh Saini	Approved	10/04/2019	10/05/2019
22 Office of Communications and Media	Lavneesh Saini	Approved	06/02/2019	06/12/2019
23 Office of Communications and Media	Lavneesh Saini	Approved	12/04/2019	12/10/2019
24 Office of Early Childhood and Out-of-School Learning	Lavneesh Saini	Approved	03/03/2019	03/05/2019
25 Office of Early Childhood and Out-of-School Learning	Lavneesh Saini	Approved	09/02/2019	09/12/2019
26 Office of Early Childhood and Out-of-School Learning	Lavneesh Saini	Approved	02/02/2019	02/04/2019
27 Office of General Counsel	Lavneesh Saini	Approved	12/06/2019	12/08/2019
28 Office of General Counsel	Lavneesh Saini	Approved	03/02/2019	03/08/2019
29 Office of Medicaid Policy and Planning	Lavneesh Saini	Approved	11/05/2019	11/11/2019

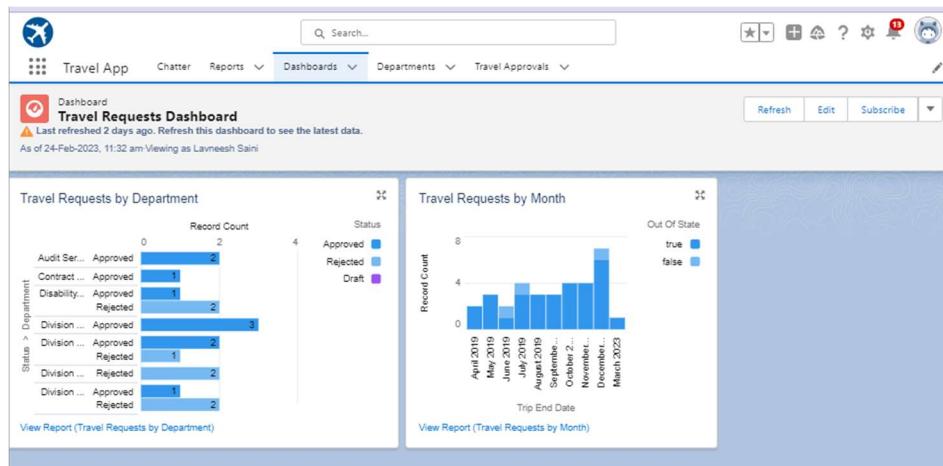
Step 2:



Step 3:



Step 4:



Module 3:

Exercise 1:

The collage consists of six screenshots arranged in a grid, each showing a different aspect of Salesforce customization:

- Top Left:** App Details & Branding screen showing the configuration of the "Code Playground" app.
- Top Right:** Customer Object Manager screen showing the details and fields for the "Customer" object.
- Middle Left:** Fields & Relationships screen for the "Customer" object, listing fields like Active, Created By, and Customer Name.
- Middle Right:** Billing Object Manager screen showing the details and fields for the "Billing" object.
- Bottom Left:** Tabs screen showing the creation of custom tabs for "Cars", "Computers", and "Drones".
- Bottom Right:** Accounts screen showing a list of accounts, including columns for Account Name, Billing State, Phone, Type, and Account Owner.

Exercise 2:

The screenshot shows the Salesforce IDE interface. On the left, there is an "Enter Apex Code" window containing the following code:1 string s = 'Hello Lavneesh';
2 system.debug(s.endsWith('saini'));On the right, there is an "Execution Log" window titled "Log executeAnonymous 02/25/2023, 11:55:02 AM". The log details the execution of the code, showing various log events like "CODE_UNIT_STARTED", "VARIABLE_SET", and "SYSTEM_DEBUG". Below the log is a table of operations:| User | Application | Operation | Time | Status | Read | Size |
| --- | --- | --- | --- | --- | --- | --- |
| Lavneesh Saini | Unknown | /services/data/v57.0/t... | 2/25/2023, 11:55:32... | Success | Unread | 2.15 KB |

The screenshot shows the Salesforce IDE interface. On the left, there is an "Enter Apex Code" window containing the following code:1 Date xDate = Date.today();
2 Date yDate = xDate.addDays(30);
3 System.debug(yDate);On the right, there is an "Execution Log" window titled "Log executeAnonymous 02/25/2023, 12:00:10 PM". The log details the execution of the code, showing various log events like "CODE_UNIT_STARTED", "VARIABLE_SET", and "SYSTEM_DEBUG". Below the log is a table of operations:| User | Application | Operation | Time | Status | Read | Size |
| --- | --- | --- | --- | --- | --- | --- |
| Lavneesh Saini | Unknown | /services/data/v57.0/t... | 2/25/2023, 12:00:04 PM | Success | Unread | 2.19 KB |
| Lavneesh Saini | Unknown | /services/data/v57.0/t... | 2/25/2023, 11:59:17... | Success | Unread | 2.42 KB |

The screenshot shows the Salesforce IDE interface. On the left, there is an "Enter Apex Code" window containing the following code:1 String x = '10';
2 integer y = 20;
3 integer z = integer.valueOf(x) +y;
4 System.debug(z);On the right, there is an "Execution Log" window titled "Log executeAnonymous 02/25/2023, 12:14:06 PM". The log details the execution of the code, showing various log events like "CODE_UNIT_STARTED", "VARIABLE_SET", and "SYSTEM_DEBUG". Below the log is a table of operations:| User | Application | Operation | Time | Status | Read | Size |
| --- | --- | --- | --- | --- | --- | --- |
| Lavneesh Saini | Unknown | /services/data/v57.0/t... | 2/25/2023, 12:13:39 PM | Success | Unread | 2.55 KB |
| Lavneesh Saini | Unknown | /services/data/v57.0/t... | 2/25/2023, 12:14:06 PM | Success | Unread | 2.85 KB |

File • Edit • Debug • Test • Workspace • Help • < >

Log executeAnonymous (02/25/2023, 12:18:15 PM)

Execution Log

Timestamp	Event	Details
12:18:15.002	USER_DEBUG	[1]DEBUG:0

Enter Apex Code

```
1 String x = 'Lavneesh';
2 System.debug(x.length());
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
Lavneesh Saini	Unknown	/services/data/v57.0/t...	2/25/2023, 12:17:20 PM	Success	Unread	2.07 KB
Lavneesh Saini	Unknown	/services/data/v57.0/t...	2/25/2023, 12:17:23 PM	Success	Unread	2.07 KB

File • Edit • Debug • Test • Workspace • Help • < >

Log executeAnonymous (02/25/2023, 12:10:59 PM)

Execution Log

Timestamp	Event	Details
12:10:59.003	USER_DEBUG	[1]DEBUG:[1, 2, 3, 4, 5]
12:10:59.003	USER_DEBUG	[13]DEBUG:[1]
12:10:59.003	USER_DEBUG	[17]DEBUG:[10, 2, 3, 4, 5]
12:10:59.003	USER_DEBUG	[31]DEBUG:[]

Enter Apex Code

```
1 List<Integer> lx = new List<Integer>();
2
3 //Add
4 lx.add(1);
5 lx.add(2);
6 lx.add(3);
7 lx.add(4);
8 lx.add(5);
9
10 //Get
11 System.debug(lx);
12 Integer xnumber = lx.get(0);
13 System.debug(xnumber);
14
15 //Set
16 lx.set(0, 100);
17 System.debug(lx);
18
19 //Clear
20 lx.clear();
21 system.debug(lx);
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
Lavneesh Saini	Unknown	/services/data/v57.0/t...	2/25/2023, 12:08:25 PM	Success	Unread	4.04 KB
Lavneesh Saini	Unknown	/services/data/v57.0/t...	2/25/2023, 12:08:25 PM	Success	Unread	4.04 KB

File • Edit • Debug • Test • Workspace • Help • < >

Log executeAnonymous (02/25/2023, 12:28:11 PM)

Execution Log

Timestamp	Event	Details
12:28:11.002	USER_DEBUG	[4]DEBUG:Value of x is:0
12:28:11.002	USER_DEBUG	[5]DEBUG:Value of x is:1
12:28:11.003	USER_DEBUG	[6]DEBUG:Value of x is:2
12:28:11.003	USER_DEBUG	[7]DEBUG:Value of x is:3
12:28:11.003	USER_DEBUG	[8]DEBUG:Value of x is:4
12:28:11.003	USER_DEBUG	[9]DEBUG:Value of x is:5
12:28:11.003	USER_DEBUG	[10]DEBUG:Value of x is:6
12:28:11.003	USER_DEBUG	[11]DEBUG:Value of x is:7
12:28:11.003	USER_DEBUG	[12]DEBUG:Value of x is:8
12:28:11.003	USER_DEBUG	[13]DEBUG:Value of x is:9
12:28:11.003	USER_DEBUG	[14]DEBUG:Value of x is:10
12:28:11.003	USER_DEBUG	[15]DEBUG:Value of x is:11
12:28:11.003	USER_DEBUG	[16]DEBUG:Value of x is:12
12:28:11.003	USER_DEBUG	[17]DEBUG:Value of x is:13
12:28:11.004	USER_DEBUG	[18]DEBUG:Value of x is:14
12:28:11.004	USER_DEBUG	[19]DEBUG:Value of x is:15
12:28:11.004	USER_DEBUG	[20]DEBUG:Value of x is:16
12:28:11.004	USER_DEBUG	[21]DEBUG:Value of x is:17
12:28:11.004	USER_DEBUG	[22]DEBUG:Value of x is:18
12:28:11.004	USER_DEBUG	[23]DEBUG:Value of x is:19

Enter Apex Code

```
1 Integer x = 20;
2 Integer count = 20;
3
4 while (x > 12) {
5     Integer res = count-x;
6     System.debug('Value of x is:' + res);
7     x--;
8 }
9
10 for(Integer x = 0; x < 10; x = x + 1){
11     System.debug('Value of x is:' + x);
12 }
13
```

Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
Lavneesh Saini	Unknown	/services/data/v57.0/t...	2/25/2023, 12:27:26 PM	Success	Unread	15.75 KB
Lavneesh Saini	Unknown	/services/data/v57.0/t...	2/25/2023, 12:27:26 PM	Success	Unread	15.75 KB

Exercise 3:

The screenshot shows the Salesforce IDE interface. On the left, an 'Enter Apex Code' window displays the following Apex code:

```
1 Integer myluckyNumber = 15;
2 Integer myunluckyNumber = 7;
3 system.debug(myluckyNumber != myunluckyNumber + 8);
```

On the right, an 'Execution Log' window shows the log entry:

Timestamp	Event	Details
12:32:55:000	USER_DEBUG	[3]@DEBUG:false

Below the Execution Log is a 'Logs' tab in the bottom navigation bar, which contains a table of logs:

User	Application	Operation	Status	Read	Size
Lavneesh Saini	Unknown	/services/data/v57.0/t...	Success	Unread	2.41 kB
Lavneesh Saini	Unknown	/services/data/v57.0/t...	Success	Unread	2.41 kB
Lavneesh Saini	Unknown	/services/data/v57.0/t...	Success	Unread	2.41 kB

Exercise 4:

The screenshot shows the Salesforce IDE interface. On the left, an 'Enter Apex Code' window displays the following Apex code:

```
1 Boolean.isTrue = True;
2 Boolean.isFalse = false;
3 system.debug(isTrue || isFalse);
```

On the right, an 'Execution Log' window shows the log entry:

Timestamp	Event	Details
12:36:36:000	USER_DEBUG	[3]@DEBUG:true

Below the Execution Log is a 'Logs' tab in the bottom navigation bar, which contains a table of logs:

User	Application	Operation	Status	Read	Size
Lavneesh Saini	Unknown	/services/data/v57.0/t...	Success	Unread	2.35 kB
Lavneesh Saini	Unknown	/services/data/v57.0/t...	Success	Unread	2.35 kB
Lavneesh Saini	Unknown	/services/data/v57.0/t...	Success	Unread	2.35 kB

Exercise 5:

The screenshot shows the Salesforce IDE interface. On the left, there is an "Enter Apex Code" window containing the following code:

```
1 Date today = Date.today();
2 Date tomorrow = Date.today().addDays(1);
3 system.debug(today != tomorrow);
```

On the right, there is an "Execution Log" window showing the results of the execution. The log entry is:

Timestamp Event Details
12:38:11:904 USER_DEBUG [3]@DEBUGtime

Below the Execution Log is a "Logs" tab with a table showing two log entries:

User	Application	Operation	Time	Status	Read	Size
Lavneesh Saini	Unknown	/services/data/v57.0/t	2/25/2023, 12:37:59 PM	Success	Unread	2.45 KB
Lavneesh Saini	Unknown	/services/data/v57.0/t	2/25/2023, 12:38:11 PM	Success	Unread	2.45 KB

Exercise 6:

The screenshot shows the Salesforce IDE interface. On the left, there is an "Enter Apex Code" window containing the following code:

```
1 Integer Score = 70;
2 if (Score == 100) {
3     System.debug ('Grade: A+');
4 }else if (Score >= 90){
5     System.debug ('Grade: A');
6 }else if (Score >= 80){
7     System.debug ('Grade: B');
8 }else{
9     System.debug ('Grade: Failed');
10 }
```

On the right, there is an "Execution Log" window showing the results of the execution. The log entry is:

Timestamp Event Details
12:43:31:903 USER_DEBUG [3]@DEBUGGrade Failed

Below the Execution Log is a "Logs" tab with a table showing two log entries:

User	Application	Operation	Time	Status	Read	Size
Lavneesh Saini	Unknown	/services/data/v57.0/t	2/25/2023, 12:42:09 PM	Success	Unread	2.5 KB
Lavneesh Saini	Unknown	/services/data/v57.0/t	2/25/2023, 12:43:31 PM	Success	Unread	2.5 KB
Lavneesh Saini	Unknown	/services/data/v57.0/t	2/25/2023, 12:43:39 PM	Success	Unread	2.5 KB

Exercise 7:

The screenshot shows the Salesforce IDE interface with the following components:

- Billing.apc** (Code Coverage: None - API Version: 57): The Apex code for the Billing class.
- Execution Log**: Shows the execution of the Billing class. The log entries are as follows:
 - 13:27:24:002 USRP_DEBUG [DEBUG]Value of Current Record in the Log(Billing__c:[Id=<003>00000pgPhAA], Name=B - 0001, Status_c=>Paid, Billing__c:[Id=<003>00000pgPhAA], Name=)
 - 13:27:24:003 USRP_DEBUG [DEBUG]Value of Current Record in the Log(Billing__c:[Id=<003>00000pgPhAA], Name=B - 0001, Status_c=>Paid, Billing__c:[Id=<003>00000pgPhAA], Name=)
 - 13:27:24:012 USRP_DEBUG [DEBUG]Value of Current Record in the Log(Billing__c:[Id=<003>00000pgPhAA], Name=B - 0001, Status_c=>Paid, Billing__c:[Id=<003>00000pgPhAA], Name=)
 - 13:27:24:013 USRP_DEBUG [DEBUG]Value of Current Record in the Log(Billing__c:[Id=<003>00000pgPhAA], Name=B - 0001, Status_c=>Paid, Billing__c:[Id=<003>00000pgPhAA], Name=)
 - 13:27:24:015 USRP_DEBUG [DEBUG]Value of Billing__c:[B - 0001, R - 9005, S - 0004, B - 0005]
- Billings** (Logs, Tools, Checkpoints, Query Editor, View Status, Progress, Problems): The Billings page in the Code Playground, showing a list of billings with columns: Bill Number, Status, and a checkbox column.

Exercise 8:

The screenshot shows the Salesforce IDE interface with the following components:

- DiscountClass.apc** (Code Coverage: None - API Version: 57): The Apex code for the DiscountClass class.
- Execution Log**: Shows the execution of the DiscountClass class. The log entry is as follows:
 - 13:53:18:002 USRP_DEBUG [DEBUG]finalPrice= DiscountClass.calculateDiscount(100);
- Billings** (Logs, Tools, Checkpoints, Query Editor, View Status, Progress, Problems): The Billings page in the Code Playground, showing a list of billings with columns: Bill Number, Status, and a checkbox column.

Exercise 9:

The screenshot shows the Salesforce IDE interface with four panels:

- InterfaceExample.apxc:** Contains the following code:

```
1 public interface InterfaceExample {  
2     Double percentageDiscountTobeApplied();  
3 }
```

- PremiumCustomer.apxc:** Contains the following code:

```
1 public class PremiumCustomer implements InterfaceExample {  
2     public Double percentageDiscountTobeApplied(){  
3         return 0.30;  
4     }  
5 }
```

- normalCustomer.apxc:** Contains the following code:

```
1 public class normalCustomer implements InterfaceExample{  
2     public Double percentageDiscountTobeApplied(){  
3         return 0.10;  
4     }  
5 }
```

- Log executeAnonymous:** Shows the execution of the anonymous code block. The code creates two instances of Customer (PremiumCustomer and normalCustomer) and calls their percentageDiscountTobeApplied() methods.

```
1 PremiumCustomer obj1 = new PremiumCustomer();  
2 Double discount = obj1.percentageDiscountTobeApplied();  
3 System.debug('Calling the interface method in PremiumCustomer to return 30% Discount. ');  
4 System.debug('Discount in percentage: '+discount*100+'%');  
5 normalCustomer obj2 = new normalCustomer();  
6 discount = obj2.percentageDiscountTobeApplied();  
7 System.debug('Calling the interface method in PremiumCustomer to return 30% Discount. ');  
8 System.debug('Discount in percentage: '+discount*100+'%');
```

Execution Log: Displays the log entries from the anonymous block execution.

Timestamp	Event	Details
20:50:41:029	USER_DEBUG	[3]DEBUG Calling the interface method in PremiumCustomer to return 30% Discount.
20:50:41:029	USER_DEBUG	[4]DEBUG Discount in percentage: 30.0%
20:50:41:030	USER_DEBUG	[7]DEBUG Calling the interface method in PremiumCustomer to return 30% Discount.
20:50:41:030	USER_DEBUG	[8]DEBUG Discount in percentage: 10.0%

Exercise 10:

The screenshot shows the Salesforce Developer Console and the Salesforce interface.

Apex Code (Developer Console):

```

1  public class DML {
2      Public void test()
3      {
4          Customer__c cust = new Customer__c();
5          cust.name = 'Wipro';
6          cust.Customer_Type__c = 'Premium';
7
8          Insert cust;
9
10         List<Billing__c> llistinsert = new List<Billing__c>((new Billing__c(Status__c = 'Paid', Amount_Paid__c = 5000000)));
11         Database.SaveResult[] srlist = Database.insert(llistinsert, false);
12         For(Database.SaveResult sr : srlist)
13         {
14             If(sr.isSuccess())
15                 System.debug('Successfully inserted Billing'+sr.getId());
16             Else
17                 For(Database.Error err : sr.getErrors())
18                     System.debug('The Following error has Occurred.');
19                     System.debug('err.getStatusCode() : '+err.getStatusCode());
20                     System.debug('Billing object Field which are Affected by the error :'+err.getFields());
21         }
22     }
23 }
24

```

Log execution response (Developer Console):

Timestamp	Event	Details
09:26:13.002	System.Limits	0
09:26:13.002	System.Limits	0
09:26:13.002	VARIABLE_ASSIGN	1]@this.Name['Wipro']@this.Id
09:26:13.003	Enter Apex Code	1 Customer__c cust = new Customer__c(name='Wipro', Customer_Type__c='Premium'); 2 Insert cust;This Frame 3 4
09:26:13.003	DML_BEGIN	2
09:26:13.003	CODE_UNIT_STARTED	3 Executable 4 Debug Only 5 Filter
09:26:13.003	STATEMENT_EXECUTE	6 Click here to filter the log
09:26:13.042	CODE_UNIT_FINISHED	7
09:26:13.042	DML_END	8
09:26:13.044	CODE_UNIT_FINISHED	9

Salesforce Interface (Code Playground):

The interface shows a customer record for 'Wipro' and a billing record for 'Customer Name: Wipro'.

Exercise 11:

The screenshot shows the Salesforce Developer Console with a query editor and its results.

Query Editor (Developer Console):

```
Select ID, Amount, StageName, Account.Name, Account.Industry, Account.Website From Opportunity Where Account.Industry = 'Energy'
```

Query Results (Developer Console):

ID	Amount	StageName	Account.Name	Account.Industry	Account.Website
0062 00000K9WQAAAN	135000	Negotiation/Review	United Oil & Gas Corp.	Energy	http://www.uso.com
0062 00000K9WQAAAN	270000	Proposal/Price Quote	United Oil & Gas Corp.	Energy	http://www.uso.com
0062 00000K9WQAAAN	120000	Closed Won	United Oil & Gas Corp.	Energy	http://www.uso.com
0062 00000K9WQAAAN	270000	Negotiation/Review	United Oil & Gas Corp.	Energy	http://www.uso.com
0062 00000K9WQAAAN	270000	Closed Won	United Oil & Gas Corp.	Energy	http://www.uso.com
0062 00000K9WQAAAN	913000	Closed Won	United Oil & Gas Corp.	Energy	http://www.uso.com
0062 00000K9WQAAAN	235000	Closed Won	United Oil & Gas Corp.	Energy	http://www.uso.com
0062 00000K9WQAAAN	440000	Closed Won	United Oil & Gas Corp.	Energy	http://www.uso.com
0062 00000K9WQAAAZ	120000	Closed Won	United Oil & Gas Corp.	Energy	http://www.uso.com
0062 00000K9WQCAA3	675000	Needs Analysis	United Oil & Gas Corp.	Energy	http://www.uso.com

Query Editor (Developer Console):

```
Select ID, Amount, StageName, Account.Name, Account.Industry, Account.Website From Opportunity Where Account.Industry = 'Energy' AND Account.AnnualRevenue > 50000
```

Output (Developer Console):

Any query errors will appear here...

Exercise 12:

The screenshot shows the Salesforce IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The main area displays the code for the `CustomerTrigger.apxt` trigger:

```
1 * trigger CustomerTrigger on Customer__c (after insert, after update) {
2     List<Billing__c> BillingList = new List<Billing__c>();
3
4     for (Customer__c objCustomer: Trigger.new)
5     {
6
7         if (objCustomer.Active__c == False)
8         {
9             Billing__c objbill = new Billing__c();
10            objbill.Status__c = 'Paid';
11            objbill.Amount_Paid__c=1000000;
12            BillingList.add(objbill);
13        }
14    }
15
16
17    insert Billinglist;
18 }
```

Below the code editor is a table titled "Logs" showing five log entries:

User	Application	Operation	Time	Status	Read	Size
Lavneesh Saini	Unknown	ApexTestHandler	2/26/2023, 12:38:01 AM	Success	Unread	8.63 KB
Lavneesh Saini	Unknown	ApexTestHandler	2/26/2023, 12:38:01 AM	Success	Unread	986 bytes
Lavneesh Saini	Unknown	ApexTestHandler	2/26/2023, 12:38:00 AM	Success	Unread	8.6 KB
Lavneesh Saini	Unknown	ApexTestHandler	2/26/2023, 12:38:00 AM	Success	Unread	11.36 KB
Lavneesh Saini	Unknown	/services/catv/v57.0/tooling/execut...	2/26/2023, 12:31:18 AM	Success		4.52 KB

Exercise 13:

The screenshot shows the Salesforce IDE interface. The top navigation bar includes File, Edit, Debug, Test, Workspace, Help, and tabs for Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The main area displays the code for the `CustomerTriggerTestClass.apxc` test class:

```
1 @isTest
2 public class CustomerTriggerTestClass {
3     @isTest static void testName() {
4         Customer__c cust = new Customer__c();
5         cust.Active__c = False;
6         insert cust;
7
8         Test.startTest();
9         cust.Active__c = False;
10        update cust;
11        Test.stopTest();
12    }
13 }
```

Below the code editor is a table titled "Tests" showing the results of a test run:

Status	Test Run	Enqueued Time	Duration	Failures	Total
✓	7rhd9ps_t_UtControllerTest	Sat Feb 25 2023 21:06:02 GMT...		0	2
✓	7072w00008M125o	Sat Feb 25 2023 21:06:02 GMT...		0	2
✓	7rhd9ps_t_UtControllerTest	Sat Feb 25 2023 21:05:56 GMT...		0	2
✓	7072w00008M125Z	Sat Feb 25 2023 21:05:56 GMT...		0	2
✓	7rhd9ps_t_UtControllerTest	Sat Feb 25 2023 21:05:44 GMT...		0	2
✓	7072w00008M11nE	Sat Feb 25 2023 21:05:44 GMT...		0	2

Exercise 14:

The screenshot shows the Salesforce IDE interface. The top part displays the trigger code for 'DisqualifyTestLeads' on the 'Lead' object. The code checks if the first name or last name contains the word 'test' and adds the lead to a list if it does. It then updates the status of each lead in the list to 'Disqualified'. The bottom part shows the 'Logs' table with three entries from the user 'Lavneesh Saini'.

```
trigger DisqualifyTestLeads on Lead (before insert) {
    List<Lead> llist = new List<Lead>();
    for(Lead le:Trigger.new) {
        if(le.FirstName.containsIgnoreCase('test')|| string.isBlank(le.FirstName)
           || le.LastName.containsIgnoreCase('test')||string.isBlank(le.LastName))
        {
            system.debug(le.FirstName + ' ' + le.LastName + ' Will be disqualified!');
            llist.add(le);
        }
    }
    for(Lead l :llist){
        l.status='Disqualified';
    }
}
```

User	Application	Operation	Time	Status	Read	Size
Lavneesh Saini	Unknown	ApexTestHandler	2/25/2023, 9:27:36 PM	Insert failed. First exc...	Unread	4.81 KB
Lavneesh Saini	Unknown	ApexTestHandler	2/25/2023, 9:27:31 PM	Success	Unread	986 bytes
Lavneesh Saini	Unknown	/services/data/v57.0/t...	2/25/2023, 9:24:07 PM	Insert failed. First exc...	Unread	4.8 KB

Exercise 15:

The screenshot shows the Salesforce IDE interface. The top part displays the test class 'DisqualifyTestLeads' with a single test method 'a'. The test creates a new lead with 'Role' as the first name, 'Test' as the last name, and 'Wipro' as the company. It then inserts the lead and stops the test. The bottom part shows the 'Logs' table with one entry from the user 'Lavneesh Saini'.

```
@isTest
public class DisqualifyTestLeads {
    @isTest static void a()
    {
        Lead le=new Lead();
        le.FirstName = 'Role';
        le.LastName = 'Test';
        le.Company = 'Wipro';

        Test.startTest();
        insert le;
        Test.stopTest();
    }
}
```

User	Application	Operation	Time	Status	Read	Size
Lavneesh Saini	Unknown	/services/data/v57.0/t...	2/25/2023, 9:30:59 PM	Success	Unread	8.58 KB

Exercise 16:

The screenshot shows the Salesforce IDE interface. At the top, the menu bar includes File, Edit, Debug, Test, Workspace, Help, and tabs for Preview and API Version (57). The main area displays the Visualforce page code for 'OppView.vfp':

```
1 <apex:page standardController = "Opportunity">
2
3 <apex:pageBlock title = "Opportunities">
4   <apex:pageBlockSection >
5     <apex:outputField value="={! Opportunity.Name}"/>
6     <apex:outputField value="={! Opportunity.Amount}"/>
7     <apex:outputField value="={! Opportunity.CloseDate}"/>
8     <apex:outputField value="={! Opportunity.Account.Name}"/>
9
10   </apex:pageBlockSection>
11 </apex:pageBlock>
12 </apex:page>
```

Below the code editor is a 'Logs' tab, which lists the following log entries:

User	Application	Operation	Time	Status	Read	Size
Lavneesh Saini	Browser	/apex/OppView	2/25/2023, 9:52:43 PM	Success	Unread	1.18 KB
Lavneesh Saini	Unknown	ApexTestHandler	2/25/2023, 9:52:28 PM	Success	Unread	987 bytes
Lavneesh Saini	Unknown	ApexTestHandler	2/25/2023, 9:52:28 PM	Insert failed. First exc...	Unread	4.82 KB
Lavneesh Saini	Unknown	ApexTestHandler	2/25/2023, 9:52:28 PM	Success	Unread	8.61 KB
Lavneesh Saini	Unknown	ApexTestHandler	2/25/2023, 9:52:28 PM	Success	Unread	8.61 KB

The bottom section shows a preview of the Opportunities page. The table has columns for Opportunity Name, Amount, Close Date, and Account Name. The first row is highlighted in yellow.

Opportunity Name	Amount
Opportunity Name	Amount
Close Date	Account Name

Exercise 17:

AccountList.apx

```

1 <apex:page standardController = "Account" recordSetVar = "Accounts" >
2   <apex:pageblock>
3     <apex:repeat var = "a" value = "[Accounts]" rendered = "true" id = "account_list">
4       <li>
5         <apex:outputLink value = "{!a.ID}" >
6           <apex:outputText value="{!a.Name}"/>
7         </apex:outputLink>
8       </li>
9     </apex:repeat>
10   </apex:pageblock>
11 </apex:page>

```

Burlington Textiles Corp of America

- Dickenson.plc
- Edge Communications
- Express Logistics and Transport
- GenePoint
- Grand Hotels & Resorts Ltd
- Pyramid Construction Inc.
- Sample Account for Entitlements
- sForce
- United Oil & Gas Corp.
- United Oil & Gas, Singapore
- United Oil & Gas, UK
- University of Arizona

Exercise 18:

NewCaseListController.apx

```

1 <apex:page controller="NewCaseListController">
2   <apex:repeat value="[!NewCases]" var="case">
3     <li><apex:outputLink value="/{case.id}" target="_new"> {case.CaseNumber}</apex:outputLink>
4   </apex:repeat>
5 </apex:page>

```

NewCaseListController.cls

```

1 public class NewCaseListController {
2   public List<Case> getNewCases(){
3     List<Case> results = Database.query("SELECT ID, Casenumber from Case where Status = '\'New\'");
4     return results;
5   }
6 }

```

- 00001002
- 00001016
- 00001024

References

1. [Manage sales - Salesforce IN](#)
2. [Salesforce - ADX201 Administrative Essentials for New Admins in Lightning Experience \(SFADX201\) \(qa.com\)](#)
3. [Understand the Salesforce Architecture Unit | Salesforce Trailhead](#)