



Capstone Project Report
On
“Travel Approval App”

Submitted by:

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Batch: WIP-SF-13

LMS Id: MGSA_521

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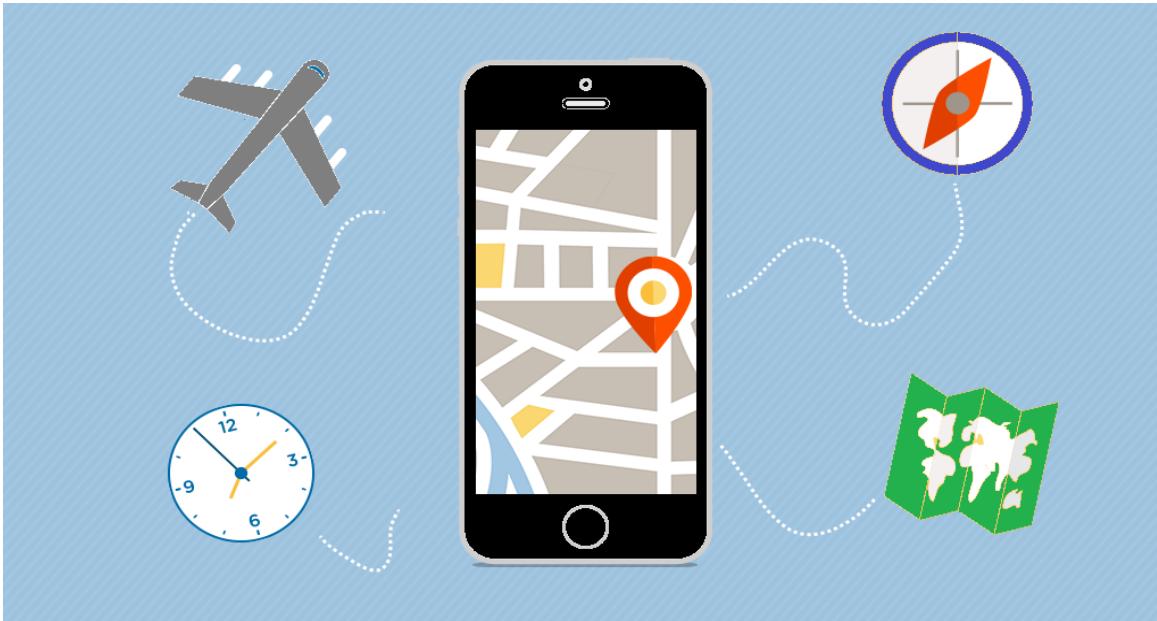
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Abstract

The Travel Approval App for Salesforce is a comprehensive solution designed to streamline the travel approval process for sales teams. With this app, sales representatives can quickly and easily submit travel requests, including details on travel dates, destinations, and budgets, all from within the Salesforce platform. The app automates the approval process, ensuring that requests are routed to the appropriate approvers based on pre-defined rules and workflows. The app also provides real time visibility into travel requests and approvals, helping sales managers make informed decisions about their teams' travel plans. Overall, the Travel Approval App for Salesforce enables sales teams to save time, increase efficiency, and improve collaboration, all while ensuring that travel is managed in a compliant and cost-effective manner.

Introduction

In today's fast-paced business environment, sales teams often need to travel frequently to meet with clients, attend conferences, and conduct business. However, managing travel requests and approvals can be a time-consuming and error-prone process, particularly when done manually. To address this challenge, many organizations are turning to technology solutions such as the Travel Approval App for Salesforce.



This app is a powerful tool that allows sales teams to easily submit and manage travel requests directly within the Salesforce platform. By automating the travel approval process, the app saves time and reduces the risk of errors and delays. It also provides sales managers with real-time visibility into their teams' travel plans, enabling them to make informed decisions about resource allocation and budgeting.



In this report, we will provide an overview of the Travel Approval App for Salesforce, including its features, benefits, and potential use cases. We will also explore how this app can help organizations improve their travel management processes, increase efficiency, and reduce costs. Finally, we will discuss best practices for implementing and using the app effectively.

Flow of the Project

The flow of the Travel Approval App for Salesforce typically involves several steps, which are as follows:

1.Travel Request Submission: Sales representatives submit travel requests using the Travel Approval App within the Salesforce platform. The request includes details such as travel dates, destinations, budgets, and purpose.

2.Automated Routing of Requests: The app automatically routes the travel request to the appropriate approvers based on pre-defined rules and workflows. This ensures that requests are reviewed by the right people, in the right order.

3.Review and Approval: Approvers receive notifications when a travel request requires their approval. They can review the request details and approve or reject it within the app.

4. Notification and Feedback: Sales representatives are notified of the approval or rejection of their travel request. If rejected, the app may allow the representative to revise and resubmit the request.

5.Real-Time Reporting: The app provides real-time visibility into travel requests and approvals, allowing sales managers to monitor travel spend and make informed decisions about their teams' travel plans. Overall, the Travel Approval App for Salesforce automates and streamlines the travel request and approval process, providing a seamless experience for sales representatives and managers while ensuring compliance and cost-effectiveness.

Software Requirements

For the fastest and most stable experience, we recommend:

- An Octane 2.0 score of 30,000 or greater
- Network latency of 150 ms 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 200 ms or less
- Download speed of 1 Mbps or greater
- At least 5 GB of RAM, with 2 GB available for Salesforce browser tabs

Module - 1

Exercise – 1

Step – 1 : Created Travel App Application

The screenshot shows the Chatter Home page of a Salesforce instance. The top navigation bar includes links for Chatter Home, Department, and a search bar. The main content area displays a feed of posts from the 'Travel App' community. One post by 'Venkata Swamy Kadiyam' on February 18, 2023, at 10:43 PM, titled 'New Flow Account', has been liked and commented on by 'Eric Executive'. A sidebar on the right shows user profiles and a list of 17 more usernames. The interface is in 'Comfy' display density.

Step – 2

Created Department Custom Object

The screenshot shows the Salesforce Setup interface with the 'Object Manager' tab selected. A new object named 'Department' has been created, and the 'Details' tab is active. The API Name is set to 'Department__c'. The 'Custom' checkbox is checked, and the singular and plural labels are both set to 'Department'. On the right side, a sidebar displays the user's profile and a list of 17 more usernames. The 'DISPLAY DENSITY' section is set to 'Comfy'.

Created new Department custom Object tab

The screenshot shows the Salesforce Setup interface with the 'Tabs' tab selected. A new custom object tab for the 'Department' custom object has been created, labeled 'Departments'. The 'Custom Tab Definition Detail' table shows the tab label is 'Departments', the object is 'Department', and it uses the 'Splash Page Custom Link' tab style. The tab was created by Venkata Swamy Kadiyam on 2/14/2023, 3:10 AM. The sidebar on the right shows the user's profile and a list of 17 more usernames, with 'DISPLAY DENSITY' set to 'Comfy'.

Step – 3

Created all the required Custom fields

The screenshot shows the Salesforce Object Manager interface for the 'Department' object. On the left, a sidebar lists various setup options like Page Layouts, Lightning Record Pages, Buttons, etc. The main area displays a table titled 'Fields & Relationships' with 7 items. The columns are 'FIELD LABEL', 'FIELD NAME', 'DATA TYPE', and 'CONTROLLER'. The fields listed are:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLER
Created By	CreatedById	Lookup(User)	
Department Code	Department_Code__c	Text(10) (Unique Case Sensitive)	
Department Name	Name	Text(80)	
Department Type	Department_Type__c	Picklist	Location
Last Modified By	LastModifiedById	Lookup(User)	
Location	Location__c	Picklist	
Owner	OwnerId	Lookup(User,Group)	

A context menu is open on the right side of the page, showing options like 'Quick Find', 'Usernames', 'Display Density', and 'Options'.

Created Field Dependency

The screenshot shows the 'Edit Field Dependency' screen for the 'Department' object. The left sidebar is identical to the previous screenshot. The main area has a title 'Edit Field Dependency' and a table with two columns: 'Controlling Field' (Location) and 'Dependent Field' (Department Type). Below the table, there's an 'Instructions' section with a list of tips for managing field dependencies. At the bottom, there are two tables for defining dependent picklists. The first table shows 'Location' (Kolkata, Banking, Finance, Education, Energy, IT) and 'Showing Column' (Banking, Finance, Education, Energy, IT). The second table shows 'Department Type' (Energy, IT) and 'Showing Column' (IT). Both tables have 'Include Values' and 'Exclude Values' buttons. A status message at the bottom right says 'Showing Columns: 1 - 2 (of 2) < Previous | Next > View All'.

Step – 4

Created the required Travel Approval Object

The screenshot shows the Salesforce Setup interface for creating a new object named "Travel Approval". The "Details" tab is selected, displaying fields like API Name (Travel_Approval__c), Singular Label (Travel Approval), and Plural Label (Travel Approvals). The left sidebar lists various setup categories such as Fields & Relationships, Page Layouts, and Buttons, Links, and Actions.

Created the required fields

The screenshot shows the "Fields & Relationships" section of the "Travel Approval" object setup. It lists 13 items, including fields like Department, Destination State, Last Modified By, Status, and various trip-related fields such as Purpose of Trip, Status Indicator, Total Expenses, and Trip Dates.

Field Label	Type	Description
Department	Department__c	Lookup(Department)
Destination State	Destination_State__c	Text(2)
Last Modified By	LastModifiedById	Lookup(User)
Out-of-State	Out_of_State__c	Checkbox
Owner	OwnerId	Lookup(User,Group)
Purpose of Trip	Purpose_of_Trip__c	Text Area(255)
Status	Status__c	Picklist
Status Indicator	Status_Indicator__c	Formula (Text)
Total Expenses	Total_Expenses__c	Roll-Up Summary (SUM Expense Item)
Travel Approval #	Name	Auto Number
Trip End Date	Trip_End_Date__c	Date
Trip Start Date	Trip_Start_Date__c	Date

After Testing the App

The screenshot shows a Salesforce Lightning application interface. At the top, there are two tabs: "TA-00001 | Salesforce" and "Travel Approval | Salesforce". The main content area displays a "Travel Approval" record with the ID "TA-00001". The record details are as follows:

- Travel Approval #:** TA-00001
- Status:** Approved
- Total Expenses:** \$1,320.00
- Status Indicator:** Green checkmark
- Trip Info:**
 - Purpose of Trip: Attend Dreamforce
 - Trip Start Date: 2/16/2023
 - Trip End Date: 3/1/2023
 - Created By: Venkata Swamy Kadiyam (Last modified by Venkata Swamy Kadiyam on 2/14/2023 at 7:32 AM)
 - Out-of-State: Checked
 - Destination State: CA

On the right side, a user profile menu is open for "Venkata Swamy Kadiyam". The menu includes options like "Follow", "Activity", "Upcoming", "Get started", "No past activity", "DISPLAY DENSITY" (set to "Comfy"), "OPTIONS", "Switch to Salesforce Classic", and "Add Username".

Step – 5

Imported Departments.CSV file using Data import Wizard

The screenshot shows a Salesforce Lightning interface. The main area displays a list of 16 departments, sorted by name. The sidebar on the right contains user information and various settings.

User Information:

- Venkata Swamy Kadiyam
- resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/o/Department__c/list?filterName=00B2w00000YMGaUEAX
- Settings Log Out

Search and Filter:

- Search bar: Search...
- Filter: All

List of Departments:

Rank	Department Name
1	Audit Services
2	Contract Management
3	Disability Determination Bureau
4	Division of Aging
5	Division of Disability and Rehabilitative Services
6	Division of Family Resources
7	Division of Finance
8	Division of Mental Health and Addiction
9	Human Resources
10	Legislative Services
11	Office of Communications and Media
12	Office of Early Childhood and Out-of-School Learning
13	Office of General Counsel
14	Office of Medicaid Policy and Planning
15	Quality and Compliance Office
16	Technology

Right Sidebar (User Settings):

- SEARCH: Quick Find
- USERNAMES:
 - swamyvenkata728@empathetic-fox-7adv84.com
 - empathetic-fox-7adv84-dev-ed.trailblaze.my.salesforce.com
 - venkataswamykadiyam14k@gmail.com
 - wipro746-dev-ed.develop.my.salesforce.com
 - venkataswamykadiyam11k@gmail.com
 - d2w00000p5na9eb-dev-ed.develop.my.salesforce.com
- DISPLAY DENSITY: Comfy (selected), Compact
- OPTIONS:
 - Switch to Salesforce Classic
 - Add Username

Exercise – 2

Step -1

Created Travel Approval Record

The screenshot shows a Salesforce Lightning interface for a Travel Approval record. The record details are as follows:

- Travel Approval #:** TA-00001
- Status:** Approved
- Total Expenses:** \$1,320.00
- Status Indicator:** Green checkmark
- Trip Info:**
 - Purpose of Trip: Attend Dreamforce
 - Out-of-State: Checked
 - Trip Start Date: 2/16/2023
 - Destination State: CA
 - Trip End Date: 3/1/2023
- Created By:** Venkata Swamy Kadiyam, 2/14/2023, 7:32 AM
- Last Modified By:** Venkata Swamy Kadiyam, 2/15/2023, 5:13 AM

The sidebar on the right displays the user profile of Venkata Swamy Kadiyam and a list of recent usernames. The user interface includes a search bar, a quick find bar, and various navigation links like Chatter, Reports, Dashboards, Departments, Travel Approvals, and Customers.

Step – 2

Created Expense Item Custom Object

The screenshot shows the Salesforce Object Manager interface. The left sidebar lists various setup options like Fields & Relationships, Page Layouts, and Lightning Record Pages. The main content area displays the 'Expense Item' object's details. The API Name is set to 'Expense_Item__c'. The Singular Label is 'Expense Item' and the Plural Label is 'Expense Items'. The 'Custom' checkbox is checked. On the right, a sidebar shows user information for Venkata Swamy Kadiyam, including email addresses and a 'Quick Find' search bar. Below that, it lists 'USERNAMES' with three entries, 'DISPLAY DENSITY' set to 'Comfy', and 'OPTIONS' for switching to Salesforce Classic or adding a new user.

SETUP > OBJECT MANAGER

Expense Item

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 W

Venkata Swamy Kadiyam
resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/setup/ObjectManager/01l2w0000034S8w/Details/view

Settings Log Out

Quick Find

USERNAMES

swamyvenkata728@empathetic-fox-7adv84.com
empathetic-fox-7adv84-dev-ed.trailblaze.my.salesforce.com

venkataswamykadiyam14k@gmail.com
wipro746-dev-ed.develop.my.salesforce.com

venkataswamykadiyam11k@gmail.com
d2w0000p5na9eab-dev-ed.develop.my.salesforce.com

17 More Usernames

DISPLAY DENSITY

✓ **Comfy**

Compact

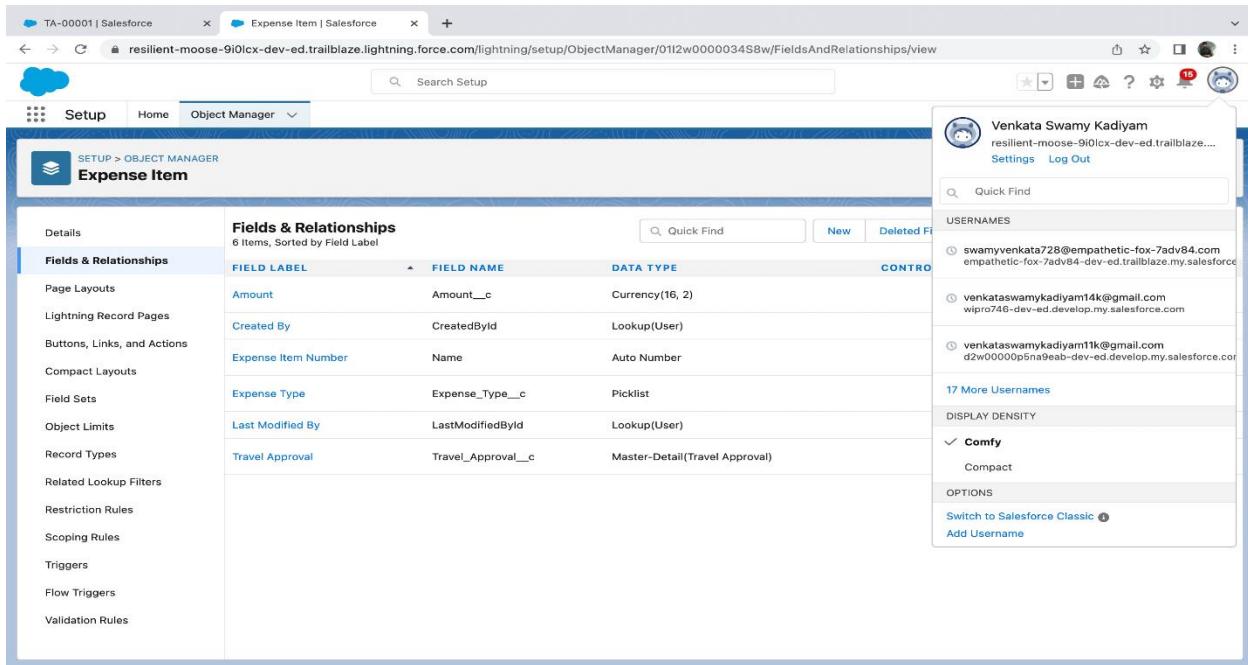
OPTIONS

Switch to Salesforce Classic ⓘ

Add Username

Step – 3

Created Custom fields



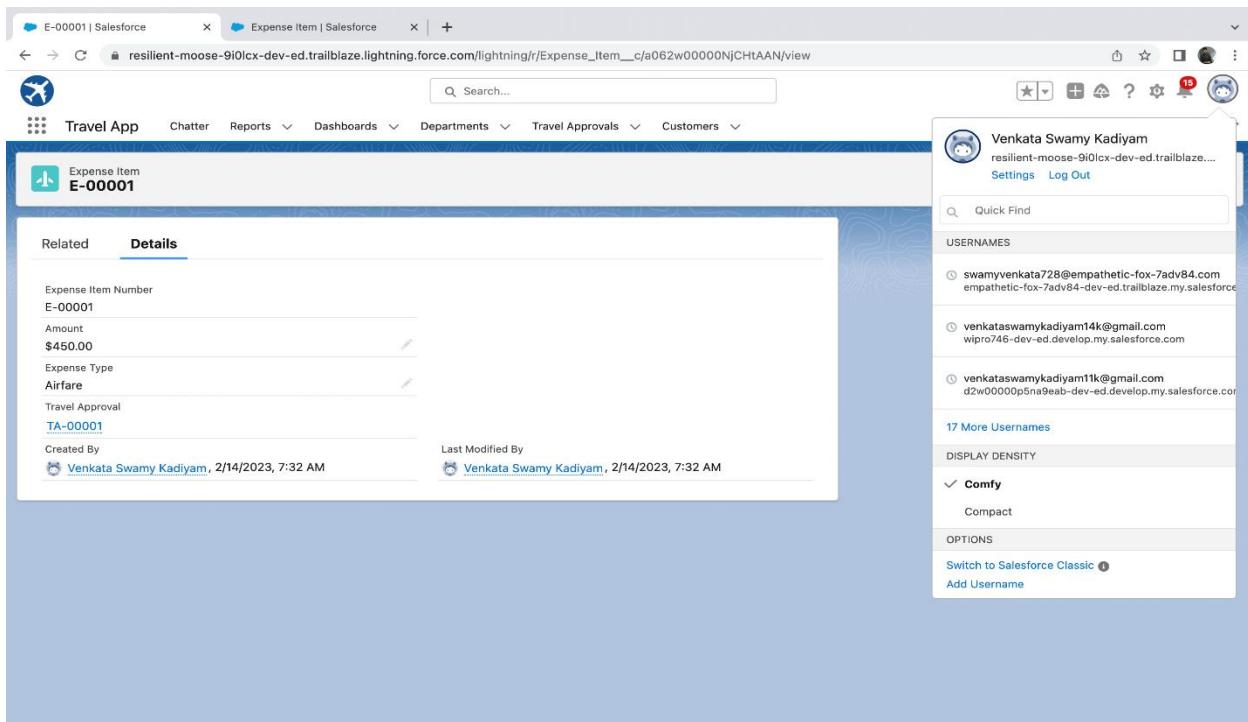
The screenshot shows the Salesforce Object Manager interface for the 'Expense Item' object. On the left, a sidebar lists various setup options like Page Layouts, Lightning Record Pages, and Field Sets. The main area is titled 'Fields & Relationships' and displays six custom fields:

FIELD LABEL	FIELD NAME	DATA TYPE
Amount	Amount__c	Currency(16, 2)
Created By	CreatedBy	Lookup(User)
Expense Item Number	Name	Auto Number
Expense Type	Expense_Type__c	Picklist
Last Modified By	LastModifiedBy	Lookup(User)
Travel Approval	Travel_Approval__c	Master-Detail(Travel Approval)

A sidebar on the right shows a list of usernames and settings for the current user, Venkata Swamy Kadiyam.

Step – 4

Created Records



The screenshot shows the 'Travel App' interface with a navigation bar for Chatter, Reports, Dashboards, Departments, Travel Approvals, and Customers. The main view displays a record for an expense item with the number E-00001. The details are as follows:

Field	Value
Expense Item Number	E-00001
Amount	\$450.00
Expense Type	Airfare
Travel Approval	TA-00001
Created By	Venkata Swamy Kadiyam
Last Modified By	Venkata Swamy Kadiyam

A sidebar on the right shows a list of usernames and settings for the current user, Venkata Swamy Kadiyam.

Screenshot of a Salesforce Lightning Experience page showing an Expense Item record (E-00002). The page includes a sidebar with user information and settings.

Expense Item Number: E-00002

Amount: \$870.00

Expense Type: Hotel

Travel Approval: TA-00001

Created By: Venkata Swamy Kadiyam, 2/14/2023, 7:33 AM

Last Modified By: Venkata Swamy Kadiyam, 2/14/2023, 7:33 AM

User Sidebar:

- Venkata Swamy Kadiyam (Profile Picture)
- resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/r/Expense_Item__c/a062w00000nJChyAAN/view
- Settings Log Out
- Quick Find
- USERNAMES

 - swamyvenkata728@empathetic-fox-7adv84.com
 - empathetic-fox-7adv84-dev-ed.trailblaze.my.salesforce
 - venkataswamykadiyam14k@gmail.com
 - wipro746-dev-ed.develop.my.salesforce.com
 - venkataswamykadiyam11k@gmail.com
 - d2w00000p5na9eb-dev-ed.develop.my.salesforce.com

- 17 More Usernames
- DISPLAY DENSITY

 - ✓ Comfy
 - Compact

- OPTIONS

 - Switch to Salesforce Classic ⓘ
 - Add Username

Created User Eric

Screenshot of the Salesforce Setup page showing the User detail for "Eric Executive". The page includes a sidebar with user information and settings.

User Detail:

Name	Eric Executive	Role	C
Alias	exec	User License	S
Email	venkataswamykadiyam0@gmail.com	Profile	S
Username	venkataswamykadiyam01@gmail.com	Active	Active
Nickname	eric.exec ⓘ	Marketing User	
Title		Offline User	
Company		Knowledge User	
Department		Flow User	
Division		Service Cloud User	
Address		Chat User	
Time Zone	(GMT-08:00) Pacific Standard Time (America/Los_Angeles)	Site.com Contributor User	
Locale	English (United States)	Site.com Publisher User	
Language	English	WDC User	
Delegated Approver Manager		Mobile Push Registration	
Receive Approval Request Emails	Only if I am an approver	Data.com User Type	
Federation ID		Accessibility Mode (Classic Only)	<input type="checkbox"/>
App Registration: One-Time Password Authenticator	ⓘ	Debug Mode	<input type="checkbox"/>
App Registration: Salesforce Authenticator	ⓘ	High-Contrast Palette on Charts	<input type="checkbox"/>
Security Key (U2F or WebAuthn)	ⓘ	Load Lightning Pages While Scrolling	<input checked="" type="checkbox"/>
		Send Apex Warning Emails	<input type="checkbox"/>

User Sidebar:

- Venkata Swamy Kadiyam (Profile Picture)
- resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/setup/ManageUsers/page?address=%2F0052w00000EddQR%3Fnoredirect%3D1%26isUserEntit...
- Settings Log Out
- Quick Find
- USERNAMES

 - swamyvenkata728@empathetic-fox-7adv84.com
 - empathetic-fox-7adv84-dev-ed.trailblaze.my.salesforce
 - venkataswamykadiyam14k@gmail.com
 - wipro746-dev-ed.develop.my.salesforce.com
 - venkataswamykadiyam11k@gmail.com
 - d2w00000p5na9eb-dev-ed.develop.my.salesforce.com

- 17 More Usernames
- DISPLAY DENSITY

 - ✓ Comfy
 - Compact

- OPTIONS

 - Switch to Salesforce Classic ⓘ
 - Add Username

Step -6

Added Eric Executive as manager to System Administrator

The screenshot shows the Salesforce Setup interface with the 'Users' tab selected. On the left, a sidebar lists various setup categories like 'Permission Set Groups', 'Profiles', and 'Roles'. The main area displays the 'User Detail' page for a user named 'Eric Executive' (ID: E-00002). The user's details include:

Name	Eric Executive	Role	C
Alias	eexec	User License	S
Email	venkataswamykadiyam0@gmail.com	Profile	S
Username	venkataswamykadiyam01@gmail.com	Active	.
Nickname	eric.exec	Marketing User	
Title		Offline User	
Company		Knowledge User	
Department		Flow User	
Division		Service Cloud User	
Address		Chat User	
Time Zone	(GMT-08:00) Pacific Standard Time (America/Los_Angeles)	Site.com Contributor User	
Locale	English (United States)	Site.com Publisher User	
Language	English	WDC User	
Delegated Approver		Mobile Push Registrations	
Manager		Data.com User Type	
Receive Approval Request Emails	Only if I am an approver	Accessibility Mode (Classic Only)	
Federation ID		Debug Mode	
App Registration: One-Time Password Authenticator		High-Contrast Palette on Charts	
App Registration: Salesforce Authenticator		Load Lightning Pages While Scrolling	
Security Key (U2F or WebAuthn)		Send Apex Warning Emails	
Lightning Login		Salesforce CRM Content User	
Temporary Verification Code (Expires in 1 to 24 Hours)	[Generate]	Receive Salesforce CRM Content Email Alerts	✓
		Receive Salesforce CRM Content Alerts as Daily Digest	✓
		Make Setup My Default Landing Page	□
		Quick Access Menu	✓

A sidebar on the right shows the user's profile picture and name ('Venkata Swamy Kadiyam'), followed by a 'Quick Find' bar and a list of 'USERNAMES' including 'swamyvenkata728@empathetic-fox-7adv84.com' and 'venkataswamykadiyam14k@gmail.com'. Below this are sections for 'DISPLAY DENSITY' (set to 'Comfy'), 'OPTIONS' (with 'Switch to Salesforce Classic' checked), and 'Add Username'.

Step -7

Customized the Travel Approval Default Search

The screenshot shows the Salesforce Setup interface with the following details:

- Page Header:** E-00002 | Salesforce, Search Layouts | Salesforce
- Left Sidebar:** Setup, Home, Object Manager. Under Einstein, it shows Einstein Search (Objects to Always Search (Beta), Promoted Search Terms, Search Layouts, Search Manager, Settings, Synonyms). Under Objects and Fields, it shows Object Manager.
- Main Content:** The "Search Layouts" page for the "Travel Approval" object. The title is "Travel Approval Search Results". It says: "Select the fields to include in this search layout. Note that your choices only determine the display of search results and do not affect the fields that are available to users when customizing their search results columns. Please refer to the online help for more information on search fields." A table lists "Available Fields" (Record ID, Out-of-State, Status Indicator, Total Expenses, Owner Alias, Owner First Name, Owner Last Name, Created By Alias, Created By, Created Date, Last Modified By Alias) and "Selected Fields" (Travel Approval #, Purpose of Trip, Department, Status, Destination State, Trip Start Date, Trip End Date). Buttons for "Add" and "Remove" are between the two columns, and "Up" and "Down" buttons are on the right side of the selected fields.
- Right Sidebar:** Shows the user profile (Venkata Swamy Kadiyam, resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com) and various settings:
 - USERNAMES:** swamyvenkata728@empathetic-fox-7adv84.com, venkataswamykadiyam14k@gmail.com, venkataswamykadiyam11k@gmail.com, d2w00000p5na9eb-dev-ed.develop.my.salesforce.com
 - DISPLAY DENSITY:** Comfy (selected), Compact
 - OPTIONS:** Switch to Salesforce Classic, Add Username
- Bottom:** Save and Cancel buttons.

Step – 8

Selected all the fields to display

The screenshot shows a Salesforce Lightning interface for a 'Travel Approvals' application. A modal window titled 'Select Fields to Display' is open, allowing the user to map fields from a list of available fields to a list of visible fields. The 'Available Fields' list includes: Department ↑, Audit Services (repeated 13 times), Contract Management (repeated 3 times), Created By Alias, Created Date, Destination State, Last Activity Date, Last Modified By, and Last Modified By Alias. The 'Visible Fields' list contains: Department, Created By, Status, Trip Start Date, and Trip End Date. At the bottom of the modal are 'Cancel' and 'Save' buttons. The background shows a list of travel approvals with columns for Trip End Date, Status, and Notes.

Step-9

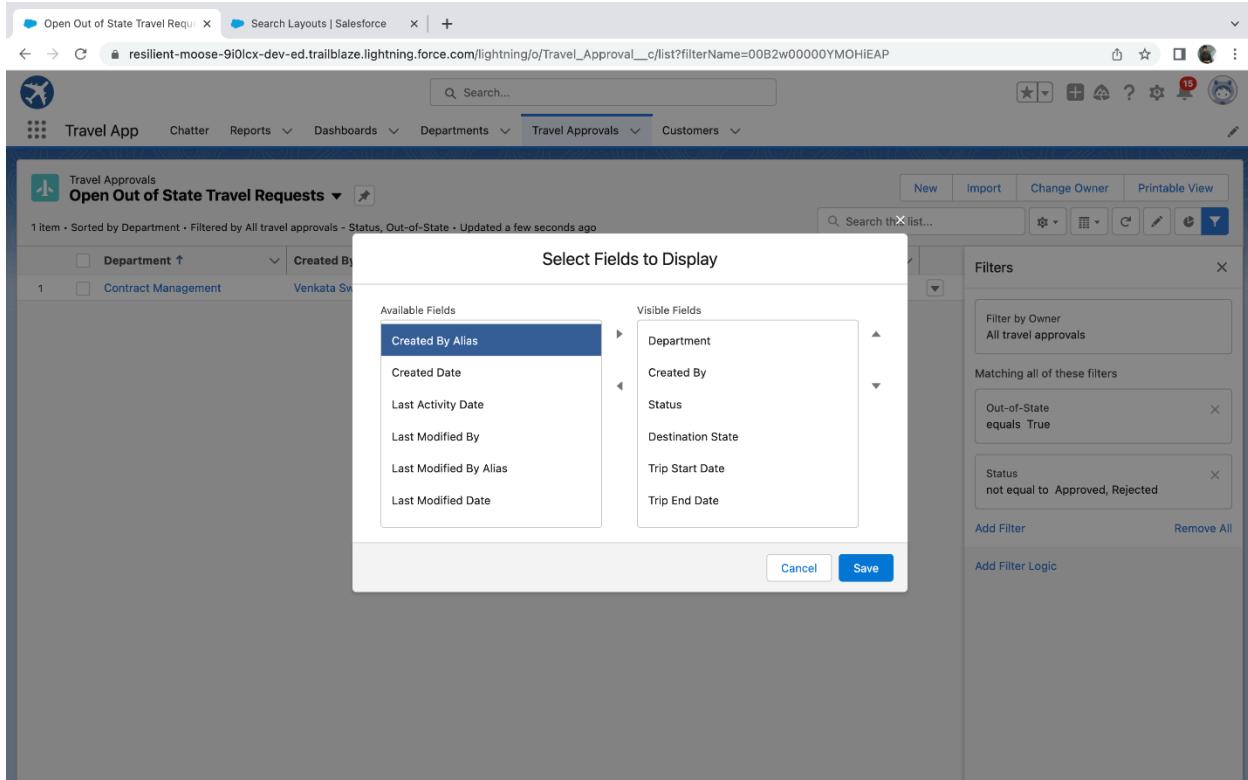
Created Travel approval custom List View Open Out of State Travel Requests

The screenshot shows the Salesforce Lightning interface with the following details:

- Title Bar:** Open Out of State Travel Request | Search Layouts | Salesforce
- Page Header:** Travel App, Chatter, Reports, Dashboards, Departments, Travel Approvals, Customers
- Page Title:** Travel Approvals
Open Out of State Travel Requests
- Table Headers:** Department, Created By, Status, Destination State, Trip Start Date, Trip End Date
- Table Data:** 1 item - Contract Management, Venkata Swamy Kadiyam, Draft, CA, 2/24/2023, 3/10/2023
- Filters Sidebar:**
 - Filter by Owner: All travel approvals
 - Matching all of these filters:
 - Out-of-State equals True
 - Status not equal to Approved, Rejected
 - Add Filter, Remove All, Add Filter Logic
- User Profile:** Venkata Swamy Kadiyam (resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com)
- Right Panel:** Quick Find, Usernames (swamyvenkata728@empathetic-fox-7adv84.com, venkataswamykadiyam14k@gmail.com, venkataswamykadiyam11k@gmail.com), Display Density (Comfy, Compact), Options (Switch to Salesforce Classic, Add Username).

Step – 10

Selected fields to display in the Travel Approval Open out of State Travel Requests



Step – 11

Customized Travel Approval Page Layout

The screenshot shows the Lightning App Builder interface. On the left, there's a sidebar with 'Components' and 'Fields' sections. Under 'Standard (38)', several components like Accordion, Action Launcher, and Chatter are listed. The main area displays a 'Travel Approval Record Page' for record TA-00500. It features a 'Details' section with fields for Trip Approval #, Status, Total Expenses, and Status Indicator. Below this is a 'Trip Info' section with fields for Purpose of Trip, Altitude Dreamforce, Trip Start Date, Trip End Date, and Created By. To the right is an 'Activity' sidebar showing a timeline with 'Upcoming & Ongoing' events. On the far right, the 'Page' configuration pane is open, showing settings for Label ('Travel Approval Record Page'), Developer Name ('Travel_Approval_Record_Page'), Page Type ('Record Page'), Object ('Travel Approval'), and Template ('Header and Right Sidebar'). A 'Description' field and a checkbox for 'Enable page-level dynamic actions for the Salesforce mobile app' are also present.

The screenshot shows the Salesforce Setup interface under 'Object Manager'. On the left, a sidebar lists various layout types: Details, Fields & Relationships, Page Layouts (which is selected), Lightning Record Pages, Buttons, Links, and Actions, Compact Layouts, Field Sets, Object Limits, Record Types, Related Lookup Filters, Search Layouts, List View Button Layout, Restriction Rules, Scoping Rules, Triggers, and Flow Triggers. The main area shows the 'Travel Approval Detail' layout. It includes sections for 'Information' (with fields for Travel Approval #, Status, Total Expenses, and Status Indicator), 'Trip Info' (with fields for Purpose of Trip, Trip Start Date, Trip End Date, and Created By), and 'System Information' (with fields for Last Modified By). On the right, a sidebar shows user profiles for Venkata Swamy Kadiyam and Venkataswamykadiyam14k@gmail.com, along with sections for 'DISPLAY DENSITY' (Compact) and 'OPTIONS' (Switch to Salesforce Classic, Add Username).

Step -12

Customized the Expense Item Related list under Travel Approval page layout

The screenshot shows a Salesforce Lightning page for a Travel Approval record (TA-00001). The page has a 'Related' tab selected, displaying two sections: 'Notes & Attachments (0)' and 'Expense Items (2)'. The 'Expense Items' section lists two items:

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

Below the table is a 'View All' link. To the right of the page, a sidebar menu is open, showing the user's profile (Venkata Swamy Kadiyam) and various settings options like 'Comfy' view, 'Compact' view, and 'Switch to Salesforce Classic'.

Step – 13

Enabled Feed Tracking

The screenshot shows the Salesforce Setup interface. In the left sidebar, under Feature Settings > Chatter > Feed Item Actions, the 'Feed Tracking' option is selected. The main content area is titled 'Feed Tracking' and contains a sub-section 'Fields in travel approvals'. It lists various fields from the 'Travel Approval' object: Department, Out-of-State, Purpose of Trip, Travel Approval #, Trip Start Date, Destination State, Owner, Status, and Trip End Date. A checkbox labeled 'Enable Feed Tracking' is checked. Below this, there's a note about selecting up to 9 fields. At the bottom, there are 'Save' and 'Cancel' buttons, and a 'Restore Defaults' link.

The screenshot shows a travel approval record in the 'Travel App'. The top navigation bar includes links for Chatter, Reports, Dashboards, Departments, Travel Approvals, and Customers. The main content displays an expense item with two rows: one for Airfare (\$450.00) and one for Hotel (\$870.00). Below this is an 'Approval History' section showing three steps: 'Travel Coordinator Approval' (Approved), 'Step 1' (Approved), and 'Approval Request Submitted' (Submitted). On the right side of the screen, there is a Chatter feed for this record. It shows a comment from 'Venkata Swamy Kadiyam' (@Eric Executive) asking which department to associate the travel request with. Eric Executive replies that the technology department is correct. There are also 'Like' and 'Comment' buttons for the feed.

Module - 2

Exercise – 1

Step – 1

Created Trip end date after start date Validation Rule

The screenshot shows the Salesforce Setup interface for the Travel Approval object. On the left, a sidebar lists various setup categories like Details, Fields & Relationships, Page Layouts, and Lightning Record Pages. The main content area displays the 'Travel Approval Validation Rule' detail page. It shows a validation rule named 'Trip_end_date_after_start_date' with the formula `Trip_End_Date__c < Trip_Start_Date__c`. The rule is active and has an error message: 'Trip end date must be greater than or equal to start date'. A description field contains the note: 'Created By Venkata Swamy Kadiyam, 2/15/2023, 3:13 AM'. The right side of the screen shows a user profile for Venkata Swamy Kadiyam and a sidebar with options like 'Comfy' and 'Switch to Salesforce Classic'.

The screenshot shows the Salesforce Setup interface for creating a new Validation Rule. The left sidebar is identical to the previous screenshot. The main content area is titled 'Validation Rule Edit' for a rule named 'Trip_end_date_after_start_date'. The 'Active' checkbox is checked. The 'Error Condition Formula' field contains the formula `Trip_End_Date__c < Trip_Start_Date__c`. A tooltip for this formula explains it displays an error if the discount percent is more than 30%. To the right of the formula editor is a 'Functions' dropdown menu showing options like ABS, ACOS, ADDMONTHS, AND, ASCII, ASIN, etc. The right side of the screen shows the same user profile and sidebar as the previous screenshot.

Step – 2

Created a Roll Up summary Field Total Expenses

The screenshot shows the Salesforce Setup interface under the Object Manager. A custom field named "Total Expenses" has been created for the "Travel Approval" object. The field is defined as a Roll-Up Summary type, summarizing the "Expense Item" object by the "Amount" field.

Custom Field Definition Detail

Field Information	Object Name	Tr...
Field Label: Total Expenses		
Field Name: Total_Expenses		
API Name: Total_Expenses__c		
Description:		
Help Text:		
Data Owner:		
Field Usage:		
Data Sensitivity Level:		
Compliance Categorization:		
Created By: Venkata Swamy Kadiyam, 2/15/2023, 3:15 AM	Modified By: Ven...	Ven...

Roll-Up Summary Options

Data Type	Summary Type	St...
Roll-Up Summary		
Summarized Object: Expense Item		
Field to Aggregate: Expense Item: Amount		
Filter Criteria:		

Step – 3

Created a formula field StatusImages

The screenshot shows the Salesforce Setup interface with the Static Resources tab selected. A search bar at the top right contains the text "Search Setup". On the left, a sidebar lists "static", "Custom Code", and "Static Resources". The main content area displays a "Static Resource Detail" page for "StatusImages". The details are as follows:

Name	StatusImages
Namespace Prefix	
Description	
MIME Type	application/zip
Cache Control	Public
Size	39,130 bytes
	View file
Created By	Venkata Swamy Kadiyam, 2/15/2023, 3:17 AM
Last Modified By	Venkata Swamy Kadiyam, 2/24/2023, 1:19 AM

Below the detail table are "Edit", "Delete", and "Where is this used?" buttons. To the right of the main content is a sidebar with user information and settings:

- User: Venkata Swamy Kadiyam (resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com)
- Settings, Log Out
- Quick Find
- USERNAMES
 - swamyvenkata728@empathetic-fox-7adv84.com (empathetic-fox-7adv84-dev-ed.trailblaze.my.salesforce.com)
 - venkataswamykadiyam14k@gmail.com (wipro746-dev-ed.develop.my.salesforce.com)
 - venkataswamykadiyam11k@gmail.com (d2w0000p5na9eab-dev-ed.develop.my.salesforce.com)
- 17 More Usernames
- DISPLAY DENSITY
 - Comfy (selected)
 - Compact
- OPTIONS
 - Switch to Salesforce Classic
 - Add Username

Step – 4

Created a formula field Status Indicator

The screenshot shows the Salesforce Setup interface with the following details:

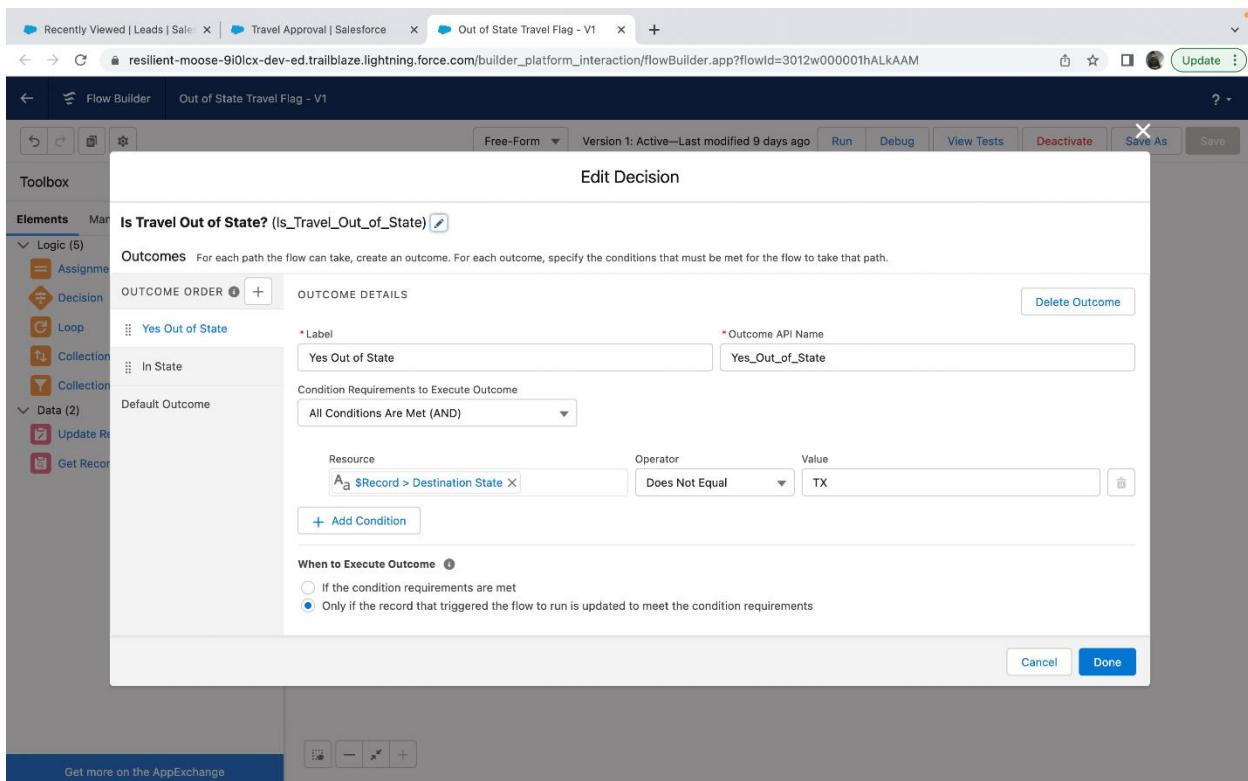
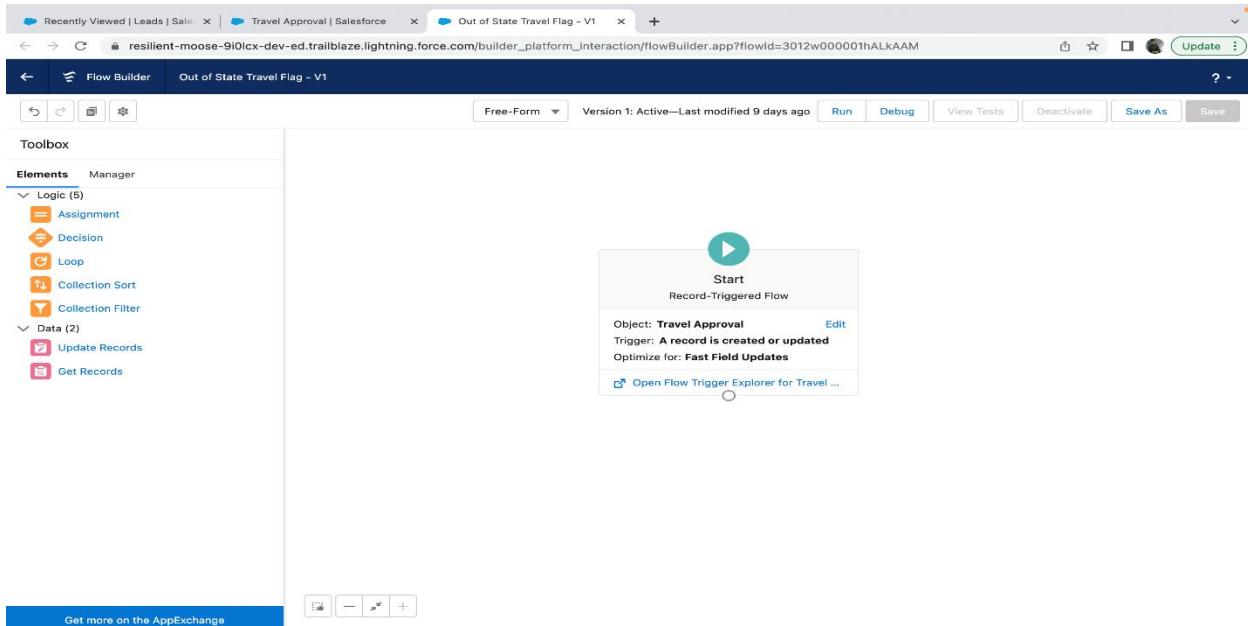
- Object Manager:** Travel Approval
- Custom Field Definition Detail:** Status Indicator
- Field Information:**
 - Field Label: Status Indicator
 - Field Name: Status_Indicator
 - API Name: Status_Indicator_c
 - Description: (empty)
 - Help Text: (empty)
 - Data Owner: (empty)
 - Field Usage: (empty)
 - Data Sensitivity Level: (empty)
 - Compliance Categorization: (empty)
- Formula Options:**
 - Data Type: Formula
 - Formula:

```
IF(ISPICKVAL(Status__c, 'Approved'), IMAGE('/resource>Status/Images/thumbs-up.png", "Accepted", 20, 20), IF (ISPICKVAL(Status__c, 'Rejected'), IMAGE('/resource>Status/Images/thumbs-down.png", "Rejected", 20, 20), IMAGE('/resource>Status/Images/draft.png", "In-Process", 20, 20)))
```
- User Profile Sidebar (right):**
 - Venkata Swamy Kadiyam (Profile Picture)
 - resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com
 - Settings Log Out
 - Quick Find
 - USERNAMES
 - swamyvenkata728@empathetic-fox-7adv84.com
 - empathetic-fox-7adv84-dev-ed.trailblaze.my.salesforce.com
 - venkataswamykadiyam14k@gmail.com
 - wipro746-dev-ed.develop.my.salesforce.com
 - venkataswamykadiyam14k@gmail.com
 - d2w00000p5na9eb-dev-ed.develop.my.salesforce.com
 - 17 More Usernames
 - DISPLAY DENSITY
 - ✓ Comfy
 - Compact
 - OPTIONS
 - Switch to Salesforce Classic
 - Add Username

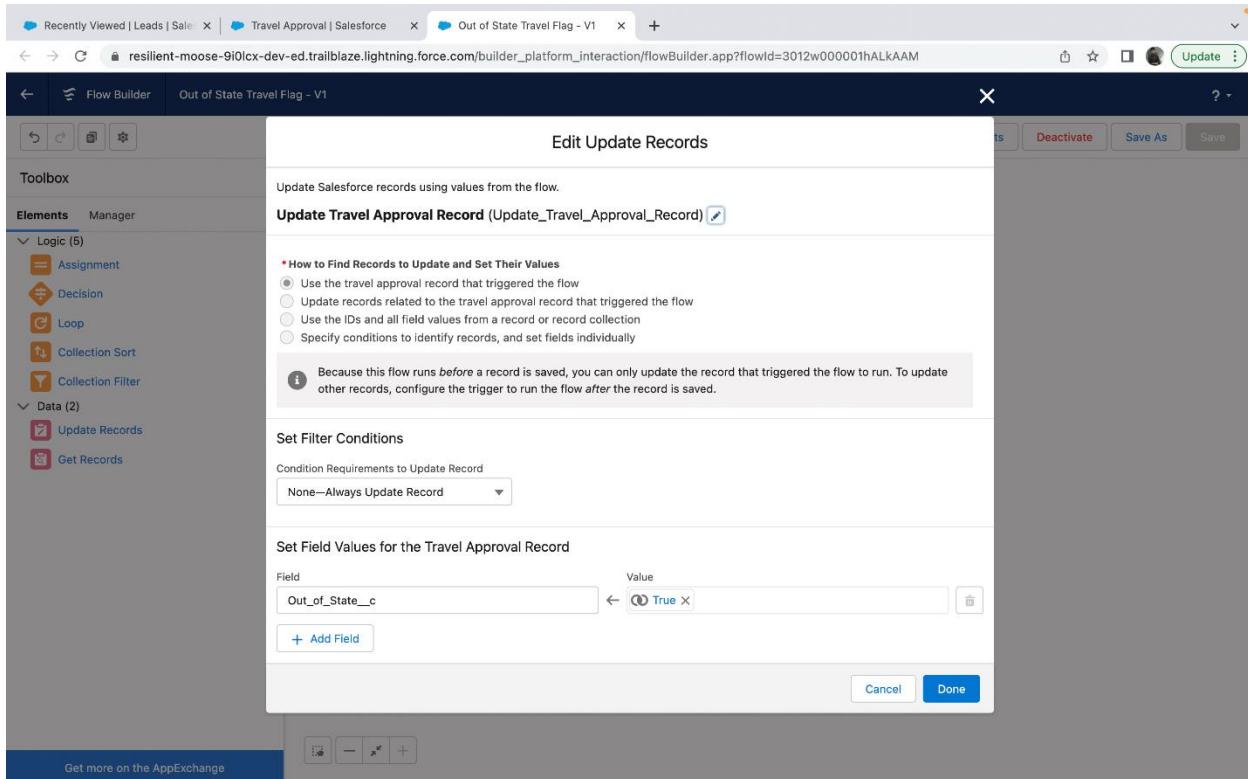
Step – 5

Created a Record – Triggered flow

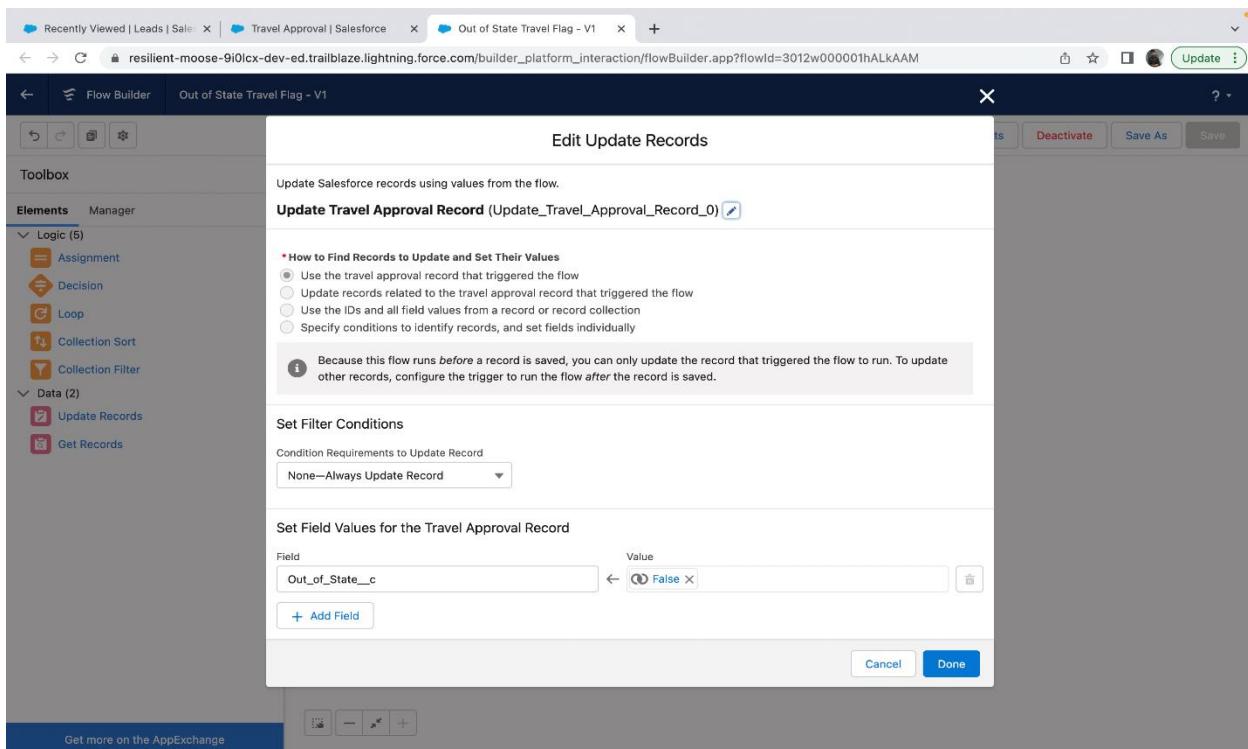
Decision block



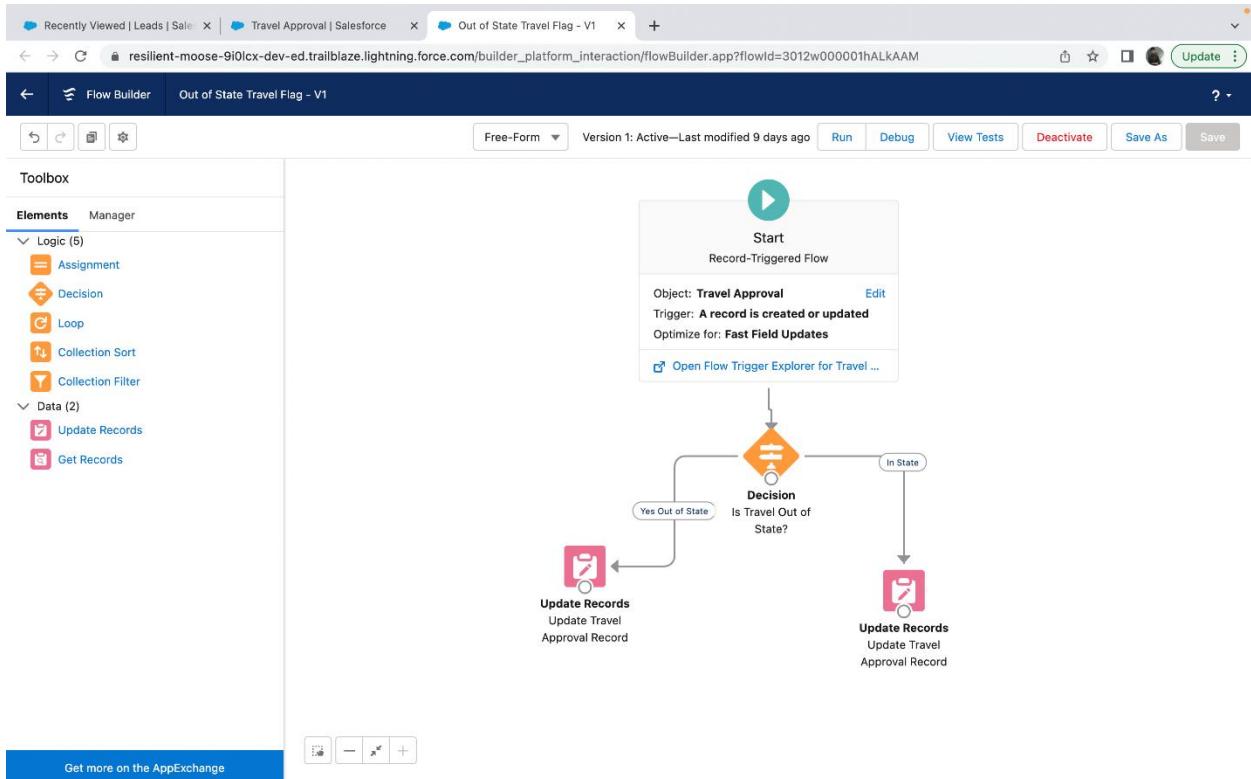
Updated Travel Approval Record(Yes out of State)



Updated Travel Approval Record (In State)



Out of State Travel Flag(Flow)



Step – 6

Created an approval process Travel Approval Request

The screenshot shows the 'Approval Processes' page in Salesforce. The main title is 'Travel Approval: Travel Approval Request'. The 'Process Definition Detail' section includes fields like Process Name (Travel Approval Request), Unique Name (Travel_Approval_Request), Description (Travel Approval: Total Expenses GREATER THAN 0), Record Editability (Administrator ONLY), and Approval Assignment Email Template (Initial Submitters: Travel Approval Owner). The 'Initial Submission Actions' section contains an action type 'Record Lock' with a description 'Lock the record from being edited'. The 'Approval Steps' section shows two steps: 'Step 1' (Show Actions) and 'Step 2' (Show Actions), both assigned to 'Travel Coordinator Approval' with criteria 'Travel Approval: Out-of-State EQUALS True'. The right sidebar displays user profiles for Venkata Swamy Kadiyam and other users, along with options for switching to Salesforce Classic or adding a new user.

Final Approval Actions

The screenshot shows the 'Field Updates' page in Salesforce. The main title is 'Set Status to Approved'. The 'Field Update Detail' section includes fields like Name (Set Status to Approved), Unique Name (Set_Status_to_Approved), Description, Object (Travel Approval), Field to Update (Travel Approval: Status), Field Data Type (Picklist), and New Field Value (Approved). The 'Rules Using This Field Update' section notes that it is currently not used by any rules. The 'Approval Processes Using This Field Update' section lists 'Travel Approval Request' with a Type of 'Travel Approval' and State of 'Active'. The right sidebar displays user profiles for Venkata Swamy Kadiyam and other users, along with options for switching to Salesforce Classic or adding a new user.

Final Rejection Actions

The screenshot shows the Salesforce Setup interface under the 'Field Updates' section. A new field update named 'Set Status to Rejected' has been created. The details are as follows:

- Name:** Set Status to Rejected
- Unique Name:** Set_Status__to_Rejected
- Description:** (empty)
- Object:** Travel Approval
- Field to Update:** Travel Approval: Status
- Field Data Type:** Picklist
- Re-evaluate Workflow Rules after Field Change:** (checkbox checked)
- New Field Value:** Rejected

Below the field update detail, there are three sections:

- Rules Using This Field Update:** This field update is currently not used by any rules.
- Approval Processes Using This Field Update:** One approval process is listed: 'Travel Approval Request' (Type: Travel Approval).
- Entitlement Processes Using This Field Update:** This field update is currently not used by any entitlement processes.

A sidebar on the right shows the user profile of Venkata Swamy Kadiyam and various setup options like 'Comfy' and 'OPTIONS'.

The screenshot shows the Salesforce Setup interface under the 'Process Automation Settings' section. The 'Process Automation' tab is selected. The 'Process Automation Settings' page contains the following configuration:

- Default Workflow User:** Venkata Swamy Kadiyam
- Automated Process User Email Address:** (input field)
- Email Approval Sender:** Approval Submitter
- Enable email approval response:** (checkbox checked)
- By enabling the email approval response feature, you agree to allow Salesforce to process email approval responses, update approval requests for a object on behalf of your organization's users.**
- Let users pause flows:** (checkbox checked)
- Let users resume shared flows:** (checkbox checked)
- Enable Lightning runtime for flows:** (checkbox checked)
- Change the required permission to view all charts on the Automation Home page in Setup. By default, users with the View Setup and Configuration permission can view all charts. When this setting is enabled, users with View Setup and Configuration can view only the Total Started Automations by Process Type chart.**
- Require the Manage Flow permission to view all Automation Home charts:** (checkbox checked)
- This setting affects Lightning Experience only. On the Flows page in Setup, use an enhanced flow list view that includes standard flows. On a separate page, view paused flows and process scheduled actions. When**

A sidebar on the right shows the user profile of Venkata Swamy Kadiyam and various setup options like 'Comfy' and 'OPTIONS'.

Testing the Approval Process

Assigned to Eric Executive

The screenshot shows a Salesforce Lightning interface for a travel approval request. The main content area displays the following details:

Submitter	Date Submitted	Actual Approver	Assigned To
Venkata Swamy Kadiyam	Feb 24, 2023	Eric Executive	Eric Executive

The "Assigned To" field is explicitly set to "Eric Executive". A sidebar on the right shows a list of users under "Assigned To" and includes options for "DISPLAY DENSITY" (set to "Comfy") and "OPTIONS" (with links to "Switch to Salesforce Classic" and "Add Username").

Assigned to Current User

The screenshot shows a Salesforce Lightning interface for a process instance step. The main content area displays the following details:

Submitter	Date Submitted	Actual Approver	Assigned To
Venkata Swamy Kadiyam	Feb 24, 2023	Venkata Swamy Kadiyam	Eric Executive

The "Assigned To" field is listed as "Eric Executive". A sidebar on the right titled "Approver Comments" shows a single comment from "Venkata Swamy Kadiyam" stating "Accepted and Assigned to Venkata Swamy" on Feb 24, 2023, at 2:04:37 AM.

After the Request approved

The screenshot shows a Salesforce Lightning page for a travel approval request. The top navigation bar includes links for Home, Chatter, Reports, Dashboards, Departments, Travel Approvals, Customers, and the specific record TA-00504 Approval. The main content area displays the "Travel Approval Approval" step, which is now in the "Approved" state. It shows details such as the Submitter (Venkata Swamy Kadiyam), Date Submitted (Feb 24, 2023), Actual Approver (Venkata Swamy Kadiyam), and Assigned To (Venkata Swamy Kadiyam). A sidebar on the right contains a "No Comments" section and a "Quick Find" search bar. A context menu is open over the approver's name, listing various user profiles and options like "Switch to Salesforce Classic".

Fields got updated after approval

The screenshot shows the same travel approval record after it has been approved. The status is now "Approved". The "Owner" field is populated with "Venkata Swamy Kadiyam". The "Department" field is set to "Contract Management". The "Last Modified By" field shows the update was made by "Venkata Swamy Kadiyam" at 2:05 AM on 2/24/2023. The "Last Modified" timestamp is also updated to 2:05 AM on 2/24/2023. The "Trip Info" section shows the trip purpose as "Holiday". The "Out-of-State" checkbox is checked. The "Destination State" is listed as "CA". The "Created By" field shows the record was created by "Venkata Swamy Kadiyam" at 2:00 AM on 2/24/2023. The "Activity" sidebar is visible on the right.

Exercise – 2

Step -1

Imported Travel Approval Records

The screenshot shows a Salesforce Lightning interface for a 'Travel App'. The main area displays a table of travel approval records. The table has columns: Department (sorted by name), Created By, Status, and Trip Start Date. The data shows multiple entries for 'Audit Services' created by 'Venkata Swamy Kadiyam' with various statuses (Rejected, Approved) and trip start dates ranging from 8/9/2019 to 5/11/2019. A sidebar on the right provides user information and settings.

	Department ↑	Created By	Status	Trip Start Date
1	Audit Services	Venkata Swamy Kadiyam	Rejected	8/9/2019
2	Audit Services	Venkata Swamy Kadiyam	Approved	2/28/2019
3	Audit Services	Venkata Swamy Kadiyam	Approved	4/30/2019
4	Audit Services	Venkata Swamy Kadiyam	Approved	12/27/2019
5	Audit Services	Venkata Swamy Kadiyam	Approved	9/21/2019
6	Audit Services	Venkata Swamy Kadiyam	Approved	9/3/2019
7	Audit Services	Venkata Swamy Kadiyam	Approved	3/20/2019
8	Audit Services	Venkata Swamy Kadiyam	Approved	7/8/2019
9	Audit Services	Venkata Swamy Kadiyam	Approved	8/7/2019
10	Audit Services	Venkata Swamy Kadiyam	Approved	2/18/2019
11	Audit Services	Venkata Swamy Kadiyam	Approved	11/4/2019
12	Audit Services	Venkata Swamy Kadiyam	Rejected	5/31/2019
13	Audit Services	Venkata Swamy Kadiyam	Approved	7/8/2019
14	Audit Services	Venkata Swamy Kadiyam	Rejected	11/22/2019
15	Audit Services	Venkata Swamy Kadiyam	Approved	4/15/2019
16	Audit Services	Venkata Swamy Kadiyam	Rejected	4/7/2019
17	Contract Management	Venkata Swamy Kadiyam	Approved	12/22/2019
18	Contract Management	Venkata Swamy Kadiyam	Approved	5/8/2019
19	Contract Management	Venkata Swamy Kadiyam	Approved	5/11/2019

Step -2 Created a Report on Travel Requests by Department

The screenshot shows the Salesforce Report Builder interface. The report title is "Travel Requests by Department". The report body contains a table with columns: Department, Travel Approval: Travel Approval #, Status, Out-of-State, Destination State, Trip Start Date, and Trip End Date. The table data includes various departments like Audit Services, Contract Management, Disability Determination Bureau, Division of Aging, Division of Disability and Rehabilitative Services, Division of Family Resources, and Human Resources, each with multiple travel approval entries. The right sidebar shows a user profile for Venkata Swamy Kadiyam and a contextual menu with options like "Comfy", "Compact", "OPTIONS", "Switch to Salesforce Classic", and "Add Username".

After Testing

The screenshot shows the Salesforce Reports interface with the same report title. The report body now displays 303 total records and 234 total out-of-state trips. The table data remains the same as in the previous screenshot. The right sidebar shows a user profile for Venkata Swamy Kadiyam and a contextual menu with options like "Comfy", "Compact", "OPTIONS", "Switch to Salesforce Classic", and "Add Username".

Travel Requests by Department x Home | Salesforce

resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/r/Report/0002w00000Bz6oyEAB/view?queryScope=userFolders

Travel App Chatter Reports Dashboards Departments Travel Approvals Customers

Report: Travel Approvals

Travel Requests by Department

The chart displays the total number of out-of-state travel requests for various departments. The Y-axis represents the 'Sum of Out-of-State' requests, ranging from 0 to 20. The X-axis lists the departments. The data shows that the Contract Management department has the highest number of requests, followed by the Division of Aging.

Department	Sum of Out-of-State
Audit Services	14
Contract Management	18
Disability Determination	14
Division of Aging	18
Division of Disability	17
Division of Family R...	15
Division of Finance	14
Division of Mental H...	12
Human Resources	17
Legislative Services	17
Office of Communications	15
Office of Early Childhood	15

Enable I

Venkata Swamy Kadiyam
resilient-moose-9i0lcx-dev-ed.trailblaze....
Settings Log Out

Quick Find

USERNAMES

- swamyvenkata728@empathetic-fox-7adv84.com
empathetic-fox-7adv84-dev-ed.trailblaze.my.salesforce.com
- venkataswamykadiyam14k@gmail.com
wipro746-dev-ed.develop.my.salesforce.com
- venkataswamykadiyam11k@gmail.com
d2w00000p5n9eab-dev-ed.develop.my.salesforce.com

17 More Usernames

DISPLAY DENSITY

✓ Comfy

Compact

OPTIONS

Switch to Salesforce Classic ⓘ

Add Username

Department

Travel Approval: Travel Approval # Status Out-of-State Destination State Trip Start Date Trip End Date

Department	Travel Approval: Travel Approval #	Status	Out-of-State	Destination State	Trip Start Date	Trip End Date
Audit Services	TA-00250	Approved	<input type="checkbox"/>	TX	4/30/2019	5/10/2019
	TA-00269	Approved	<input checked="" type="checkbox"/>	OK	12/27/2019	1/10/2020
	TA-00278	Approved	<input checked="" type="checkbox"/>	FL	9/21/2019	10/6/2019
	TA-00281	Approved	<input checked="" type="checkbox"/>	OK	9/3/2019	9/3/2019
	TA-00283	Approved	<input checked="" type="checkbox"/>	CA	3/20/2019	4/10/2019
	TA-00318	Approved	<input checked="" type="checkbox"/>	OK	7/8/2019	7/9/2019

Row Counts Detail Rows Subtotals Grand Total

Step – 3

Created a Travel Requests by Monthly Report

Travel Requests by Month

Trip End Date	Out-of-State	Travel Approval: Travel Approval #	Department
January 2019 (1)	<input checked="" type="checkbox"/> (1)	TA-00244	Division of Aging
			Subtotal
March 2019 (2)	<input checked="" type="checkbox"/> (2)	TA-00243	Division of Aging
		TA-00248	Technology
			Subtotal
April 2019 (3)	<input type="checkbox"/> (1)	TA-00249	Division of Family Resources
			Subtotal
	<input checked="" type="checkbox"/> (2)	TA-00255	Quality and Compliance Office
		TA-00257	Office of Early Childhood and Out-of-School Learning
			Subtotal
May 2019 (2)	<input type="checkbox"/> (1)	TA-00250	Audit Services
			Subtotal
	<input checked="" type="checkbox"/> (1)	TA-00252	Disability Determination Bureau
			Subtotal
June 2019 (1)	<input checked="" type="checkbox"/> (1)	TA-00247	Division of Disability and Rehabilitative Services
			Approved FL 6/27/2019
			Grand Total

Travel Requests by Month

Trip End Date	Out-of-State	Travel Approval: Travel Approval #	Department	Status	Destination State
January 2019 (17)	<input type="checkbox"/> (6)	TA-00266	Legislative Services	Approved	TX
		TA-00289	Office of General Counsel	Rejected	TX
		TA-00302	Disability Determination Bureau	Approved	TX
		TA-00436	Division of Aging	Approved	TX
		TA-00448	Quality and Compliance Office	Approved	TX
		TA-00457	Contract Management	Approved	TX
			Subtotal		
	<input checked="" type="checkbox"/> (11)	TA-00244	Division of Aging	Approved	OK
		TA-00304	Division of Aging	Approved	FL
		TA-00314	Division of Mental Health and Addiction	Approved	OK
		TA-00315	Contract Management	Approved	GA
		TA-00359	Division of Disability and Rehabilitative Services	Approved	FL
		TA-00395	Contract Management	Approved	FL
		TA-00408	Office of Early Childhood and Out-of-School Learning	Approved	GA
		TA-00410	Division of Family Resources	Approved	FL
		TA-00413	Office of Early Childhood and Out-of-School Learning	Rejected	OK
		TA-00223	Office of Communications and Media	Rejected	FL
			Grand Total		1/18/2019
					1/21/2019
					1/4/2019
					1/12/2019

Travel Requests by Month | Sales | Home | Salesforce

resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/r/Report/0002w00000Bz6tUEAR/view?queryScope=userFolders

Travel App Chatter Reports Dashboards Departments Travel Approvals Customers

Report: Travel Approvals
Travel Requests by Month

Total Records 303

Record Count

Trip End Date	Record Count
January 2019	~17
February 2019	~22
March 2019	~22
April 2019	~18
May 2019	~22
June 2019	~18
July 2019	~22
August 2019	~18
September 2019	~22
October 2019	~18
November 2019	~22
December 2019	~18
January 2020	~22
February 2023	~2
March 2023	~3

Out-of-State ▾ Travel Approval: Travel Approval # ▾ Department ▾ Status ▾ Destination State ▾ Trip Start Date ▾

Trip End Date	Out-of-State	Travel Approval: Travel Approval #	Department	Status	Destination State	Trip Start Date
January 2019 (17)	(6)	TA-00266	Legislative Services	Approved	TX	1/20/2019
		TA-00289	Office of General Counsel	Rejected	TX	1/27/2019
		TA-00302	Disability Determination Bureau	Approved	TX	1/12/2019
		TA-00436	Division of Aging	Approved	TX	1/22/2019

Row Counts Detail Rows Subtotals Grand Total

Venkata Swamy Kadiyam
resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/r/Report/0002w00000Bz6tUEAR/view?queryScope=userFolders

Settings Log Out

Quick Find

USERNAMES

- swamyvenkata728@empathetic-fox-7adv84-dev-ed.develop.my.salesforce.com
- venkataswamykadiyam14k@gmail.com
- wipro746-dev-ed.develop.my.salesforce.com
- venkataswamykadiyam11k@gmail.com
- d2w00000p5n9eab-dev-ed.develop.my.salesforce.com

17 More Usernames

DISPLAY DENSITY

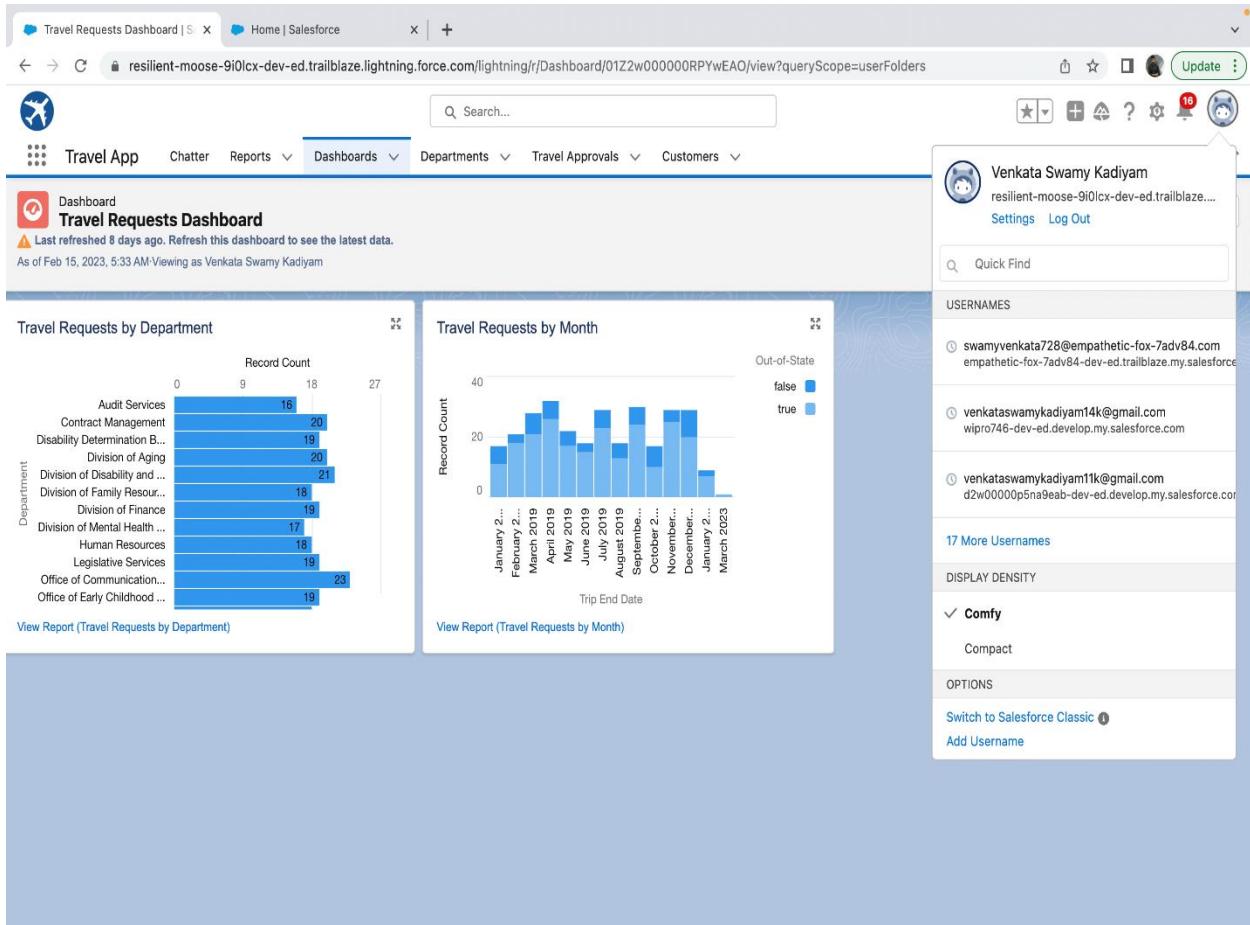
✓ Comfy Compact

OPTIONS

Switch to Salesforce Classic Add Username

Step – 4

Created a Report and Dashboard for Travel Approvals



Module 3

Exercise – 1

Created Code Playground App

The screenshot shows the Lightning App Builder interface for creating a new app named 'Code Playground'. The left sidebar lists 'App Settings' with 'App Details & Branding' selected. The main content area displays the 'App Details & Branding' section. It includes fields for 'App Name' (Code Playground), 'Developer Name' (Code_Playground), and a 'Description' input field ('Enter a description...'). On the right, there's an 'App Branding' section with a placeholder image, a color picker set to '#0070D2', and an 'Org Theme Options' checkbox (checked) that says 'Use the app's image and color instead of the org's custom theme'. Below this is an 'App Launcher Preview' showing a dark square icon next to the app name 'Code Playground'.

Created the Custom Object Customer

The screenshot shows the Salesforce Setup interface for managing custom objects. The main title bar says "Customer | Salesforce". The URL in the address bar is "resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/setup/ObjectManager/01l2w0000034uCl/Details/view". The top navigation bar includes "Recently Viewed | Leads | Sales", "Customer | Salesforce", and a "+" button. Below the navigation is a search bar with "Search Setup". The main content area is titled "SETUP > OBJECT MANAGER" and shows the "Customer" object. On the left, there's a sidebar with various tabs like "Fields & Relationships", "Page Layouts", "Lightning Record Pages", etc. The main "Details" section shows the API Name as "Customer__c", Singular Label as "Customer", and Plural Label as "Customers". To the right, there are several configuration sections: "Enable Reports" (checked), "Track Activities" (checked), "Track Field History", "Deployment Status" (Deployed), "Help Settings", and a link to "Standard salesforce.com Help W...". A sidebar on the right lists "Quick Find", "USERNAMES" (with three entries: "swamyvenkata728@empathetic-fox-7adv84.com", "venkataswamykadiyam14k@gmail.com", and "venkataswamykadiyam1lk@gmail.com"), "DISPLAY DENSITY" (set to "Comfy"), and "OPTIONS" (with links to "Switch to Salesforce Classic" and "Add Username"). The top right corner of the sidebar shows the user profile "Venkata Swamy Kadiyam" and a "Log Out" button.

Created all the custom fields

The screenshot shows the Salesforce Setup interface for the Customer object. The left sidebar lists various setup categories like Page Layouts, Lightning Record Pages, and Field Sets. The main content area displays the 'Fields & Relationships' section for the Customer object. It lists seven fields: Active, Created By, Customer, Customer Name, Customer Type, Description, and Last Modified By. The 'Active' field is a checkbox, 'Created By' is a lookup to User, 'Customer' is a master-detail relationship, 'Customer Name' is a text field, 'Customer Type' is a picklist, 'Description' is a text area, and 'Last Modified By' is a lookup to User. The right sidebar shows the user profile of Venkata Swamy Kadiyam and a list of other usernames.

Created a Custom Object named Billing

The screenshot shows the Salesforce Setup interface for a custom object named Billing. The left sidebar lists various setup categories. The main content area displays the 'Details' section for the Billing object. It shows the API name as Billing_c and the singular label as Billing. The right sidebar shows the user profile of Venkata Swamy Kadiyam and a list of other usernames.

Created Custom fields for billing object

The screenshot shows the Salesforce Object Manager interface for the 'Billing' object. The left sidebar lists various setup options like Page Layouts, Lightning Record Pages, Buttons, etc. The main area displays a table titled 'Fields & Relationships' with 7 items. The columns are 'FIELD LABEL', 'FIELD NAME', 'DATA TYPE', and 'CONTROLLING'. The data includes:

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING
Amount Paid	Amount_Paid__c	Currency(18, 0)	
Bill Number	Name	Auto Number	
Created By	CreatedBy	Lookup(User)	
Customer Type	Customer_Type__c	Picklist	
Last Modified By	LastModifiedBy	Lookup(User)	
Owner	OwnerId	Lookup(User,Group)	
Status	Status__c	Picklist	

The right sidebar shows user profiles for Venkata Swamy Kadiyam, including quick find, usernames, display density, and options.

Code Playground App

The screenshot shows a custom application named 'Code Playground' with a tab for 'All Open Leads'. The lead list table has columns: Name, Company, State, Email, Lead Status, and Created Date. The data includes:

	Name	Company	State	Email	Lead Status	Created
1	Bertha Boxer	Farmers Coop. of Florida	FL	bertha@fcf.net	Working - Contacted	12/12/2022, 7:52 AM
2	Betty Bair	American Banking Corp.	PA	bblair@abankingco.com	Working - Contacted	12/12/2022, 7:52 AM
3	Brenda McClure	Cadinal Inc.	IL	brenda@cardinal.net	Working - Contacted	12/12/2022, 7:52 AM
4	David Monaco	Blues Entertainment Corp.		david@blues.com	Working - Contacted	12/12/2022, 7:52 AM
5	Jeff Glimpse	Jackson Controls		jeffg@jackson.com	Open - Not Contacted	12/12/2022, 7:52 AM
6	Kathy Snyder	TNR Corp.	CT	ksnyder@tnr.net	Working - Contacted	12/12/2022, 7:52 AM
7	Kristen Akin	Aethna Home Products	VA	kakin@athenahome.com	Working - Contacted	12/12/2022, 7:52 AM
8	Mike Braund	Metropolitan Health Services	MD	likeb@metro.com	Open - Not Contacted	12/12/2022, 7:52 AM
9	Norm May	Greenwich Media	OH	norm_may@greenwich.net	Working - Contacted	12/12/2022, 7:52 AM
10	Patricia Feager	International Shipping Co.	NC	patricia_feager@is.com	Working - Contacted	12/12/2022, 7:52 AM
11	Phyllis Cotton	Abbott Insurance	VA	pcotton@abbottins.net	Open - Not Contacted	12/12/2022, 7:52 AM
12	Sandra Eberhard	Highland Manufacturing Ltd.	CA	sandra_e@highland.net	Working - Contacted	12/12/2022, 7:52 AM
13	Shelly Brownell	Western Telecommunications Corp.	CA	shellyb@westerntelecom.com	Working - Contacted	12/12/2022, 7:52 AM
14	Tom James	Delphi Chemicals	MN	tom.james@delphi.chemicals.com	Working - Contacted	12/12/2022, 7:52 AM
15	Violet Macleod	Emerson Transport	GA	violetm@emersontransport.com	Working - Contacted	12/12/2022, 7:52 AM

The right sidebar shows user profiles for Venkata Swamy Kadiyam, including quick find, usernames, display density, and options.

Exercise – 2

String Variable using endsWith() method

The screenshot shows the Salesforce Developer Console interface. The top navigation bar includes tabs for 'All Open Leads | Leads | Sales' and 'Home | Salesforce'. The main title bar says 'resilient-moose-9i0lcx-dev-ed.traillblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage'. Below the title bar is a toolbar with icons for File, Edit, Debug, Test, Workspace, Help, and various developer tools.

The central area is divided into two main sections: 'Execution Log' on the left and 'Enter Apex Code' on the right.

Execution Log: A table showing system events and details. Key entries include:

- 12:08:36:003 USER_INFO [EXTERNAL]@0052w00000Ak4lz|swamyvenkata728@resilient-moose-9i0lcx.com|(GMT-08:00) Pacific Standard Time (America/Los_Angeles)|(GMT-08:00)
- 12:08:36:004 EXECUTION_ST...
- 12:08:36:004 CODE_UNIT_ST... [EXTERNAL]execute_anonymous_apex
- 12:08:36:004 VARIABLE_SCOP... [1]|name[String]false|false
- 12:08:36:004 HEAP_ALLOCATE [79]||Bytes:3
- 12:08:36:004 HEAP_ALLOCATE [84]||Bytes:152
- 12:08:36:004 HEAP_ALLOCATE [399]||Bytes:408
- 12:08:36:004 HEAP_ALLOCATE [412]||Bytes:408
- 12:08:36:004 HEAP_ALLOCATE [520]||Bytes:48
- 12:08:36:004 HEAP_ALLOCATE [139]||Bytes:6
- 12:08:36:004 HEAP_ALLOCATE [EXTERNAL]||Bytes:3
- 12:08:36:004 STATEMENT_EX... [1]
- 12:08:36:004 STATEMENT_EX... [1]
- 12:08:36:004 HEAP_ALLOCATE [1]||Bytes:13
- 12:08:36:004 VARIABLE_ASSI... [1]|name|Venkata Swamy
- 12:08:36:004 STATEMENT_EX... [2]
- 12:08:36:004 HEAP_ALLOCATE [2]||Bytes:1
- 12:08:36:005 HEAP_ALLOCATE [52]||Bytes:5
- 12:08:36:005 HEAP_ALLOCATE [38]||Bytes:5
- 12:08:36:005 HEAP_ALLOCATE [66]||Bytes:7
- 12:08:36:005 USER_DEBUG [2]||DEBUG|true
- 12:08:36:005 CUMULATIVE_L...
- 12:08:36:005 LIMIT_USAGE... (default)|

Enter Apex Code: A code editor window containing the following Apex code:

```
1 String name = 'Venkata Swamy';
2 System.debug(name.endsWith('y'));
```

At the bottom of the code editor are buttons for 'Open Log', 'Execute', and 'Execute Highlighted'.

Below the code editor is a 'Logs' tab in the navigation bar, which displays a table of logs:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyan	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:08:36	Success		2.16 KB

Used Date Method and displayed the date

The screenshot shows the Salesforce Developer Console interface, similar to the previous one but with a different log entry.

The top navigation bar and title bar are identical to the first screenshot.

The central area is divided into 'Execution Log' and 'Enter Apex Code' sections.

Execution Log: Shows system events and details. Key entries include:

- 12:12:30:003 USER_DEBUG [2]||DEBUG|2023-02-20 00:00:00
- 12:12:30:003 USER_DEBUG [4]||DEBUG|2023-03-22 00:00:00

Enter Apex Code: A code editor window containing the following Apex code:

```
1 Date d1 = Date.today();
2 System.debug(d1);
3 Date d2 = d1.addDays(30);
4 System.debug(d2);
```

At the bottom of the code editor are buttons for 'Open Log', 'Execute', and 'Execute Highlighted'.

Below the code editor is a 'Logs' tab in the navigation bar, which displays a table of logs:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyan	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:12:30	Success		2.52 KB
Venkata Swamy Kadiyan	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:08:36	Success		2.16 KB

Converted the string into integer and added 20 to it

The screenshot shows the Salesforce Developer Console interface. At the top, there are three tabs: "All Open Leads | Leads | Salesf", "Home | Salesforce", and "Developer Console". The "Developer Console" tab is active. Below the tabs is a navigation bar with links like File, Edit, Debug, Test, Workspace, and Help. A message bar at the top says "Log executeAnonymous @21/02/2023, 12:23:10".

The main area is divided into two sections: "Execution Log" and "Enter Apex Code".

Execution Log:

Timestamp	Event	Details
12:23:10:004	USER_DEBUG	[3] DEBUG 10
12:23:10:004	USER_DEBUG	[4] DEBUG 30

Enter Apex Code:

```
1 String str = '10';
2 integer num = Integer.valueOf(str);
3 System.debug(num);
4 System.debug(num+20);
```

At the bottom of the code editor are three buttons: "Open Log", "Execute", and "Execute Highlighted".

Below the code editor is a "Logs" section with a table:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:23:10	Success		2.46 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:12:30	Success		2.52 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:08:36	Success		2.16 KB

Used length method to display String length

The screenshot shows the Salesforce Developer Console interface. At the top, there are three tabs: "All Open Leads | Leads | Salesf", "Home | Salesforce", and "Developer Console". The "Developer Console" tab is active. Below the tabs is a navigation bar with links like File, Edit, Debug, Test, Workspace, and Help. A message bar at the top says "Log executeAnonymous @21/02/2023, 12:25:05".

The main area is divided into two sections: "Execution Log" and "Enter Apex Code".

Execution Log:

Timestamp	Event	Details
12:25:05:002	USER_DEBUG	[2] DEBUG str size: 13

Enter Apex Code:

```
1 String str = 'Venkata Swamy';
2 System.debug('str size: '+str.length());
```

At the bottom of the code editor are three buttons: "Open Log", "Execute", and "Execute Highlighted".

Below the code editor is a "Logs" section with a table:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:25:05	Success		2.27 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:23:10	Success		2.46 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:12:30	Success		2.52 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:08:36	Success		2.16 KB

Defined a list and displayed the outputs using different methods

The screenshot shows the Salesforce Developer Console interface. In the center, there is a code editor window titled "Enter Apex Code" containing the following Apex code:

```
List<integer> li = new List<integer>();
li.add(10);
li.add(20);
li.add(30);
li.add(40);
li.add(50);
System.debug('After using add() method: '+li);
System.debug('After using get() method: '+li.get(2));
li.set(3,35);
System.debug('After using set() method: '+li);
li.clear();
System.debug('After clearing all elements '+li);
```

Below the code editor is a "Logs" tab in the developer console header. The logs table shows the following entries:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:30:55	Success		4.45 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:25:05	Success		2.47 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:23:10	Success		2.46 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:12:30	Success		2.52 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:08:36	Success		2.16 KB

Printed numbers between 0 to 9

The screenshot shows the Salesforce Developer Console interface. In the center, there is a code editor window titled "Enter Apex Code" containing the following Apex code:

```
integer x;
for(x=0;x<10;x++){
    System.debug('The Value of x is: '+x);
```

Below the code editor is a "Logs" tab in the developer console header. The logs table shows the following entries:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:38:07	Success		5.52 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:36:27	Apex CPU time limit exceeded	Unread	17.58 MB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:30:55	Success		4.45 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:25:05	Success		2.27 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:23:10	Success		2.46 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:12:30	Success		2.52 KB

Exercise – 3

The screenshot shows the Salesforce Developer Console interface. At the top, there are three tabs: "All Open Leads | Leads | Sales!" (active), "Home | Salesforce", and "Developer Console". The URL in the address bar is "resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". Below the tabs is a menu bar with "File", "Edit", "Debug", "Test", "Workspace", and "Help". A sub-menu for "Log executeAnonymous" is open, showing the date and time: "21/02/2023, 12:46:19".

The main area is titled "Execution Log" and contains a table with columns: "Timestamp", "Event", and "Details". A single entry is shown: "12:46:19:003 USER_DEBUG [4]DEBUG|true". To the right of the log table is a large text area titled "Enter Apex Code" containing the following code:

```
1 Integer myluckyNumber = 15;
2 Integer myunluckyNumber = 7;
3 boolean luckyOrNot = (myluckyNumber != myunluckyNumber + 8)?False:True;
4 system.debug(luckyOrNot);
```

At the bottom of the developer console window, there are buttons for "Open Log", "Execute", and "Execute Highlighted".

Below the developer console is a separate log viewer window. It has a toolbar with "Logs", "Tests", "Checkpoints", "Query Editor", "View State", "Progress", and "Problems". The "Logs" tab is selected. It displays a table of log entries with columns: "User", "Application", "Operation", "Time", "Status", "Read", and "Size". All entries show "Success" status and "Read" access. The log entries are:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:46:19	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:45:40	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:45:19	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:44:02	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:41:34	Success		2.56 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:38:07	Success		5.52 KB

At the bottom of the log viewer window, there are buttons for "Filter" and "Click here to filter the log list".

Exercise – 4

The screenshot shows the Salesforce Developer Console interface. At the top, there are three tabs: "All Open Leads | Leads | Sales!" (active), "Home | Salesforce", and "Developer Console". The URL in the address bar is "resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". Below the tabs is a menu bar with "File", "Edit", "Debug", "Test", "Workspace", and "Help". A sub-menu for "Log executeAnonymous" is open, showing the date and time: "21/02/2023, 12:48:07".

The main area is titled "Execution Log" and contains a table with columns: "Timestamp", "Event", and "Details". A single entry is shown: "12:48:07:002 USER_DEBUG [3]DEBUG|true". To the right of the log table is a large text area titled "Enter Apex Code" containing the following code:

```
1 Boolean.isTrue = True;
2 Boolean.IsFalse = False;
3 System.debug(isTrue || isFalse);
4
```

At the bottom of the developer console window, there are buttons for "Open Log", "Execute", and "Execute Highlighted".

Below the developer console is a separate log viewer window. It has a toolbar with "Logs", "Tests", "Checkpoints", "Query Editor", "View State", "Progress", and "Problems". The "Logs" tab is selected. It displays a table of log entries with columns: "User", "Application", "Operation", "Time", "Status", "Read", and "Size". All entries show "Success" status and "Read" access. The log entries are:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:48:07	Success		2.36 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:46:19	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:45:40	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:45:19	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:44:02	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:41:34	Success		2.56 KB

At the bottom of the log viewer window, there are buttons for "Filter" and "Click here to filter the log list".

Exercise – 5

The screenshot shows the Salesforce Developer Console interface. At the top, there are three tabs: "All Open Leads | Leads | Sales", "Home | Salesforce", and "Developer Console". The "Developer Console" tab is active.

The main area displays an "Execution Log" for a log entry at "2023-02-21T12:50:15". The log table has columns: "Timestamp", "Event", and "Details". One entry is shown:

12:50:15:002	USER_DEBUG	[3] DEBUG true
--------------	------------	-----------------

A modal window titled "Enter Apex Code" contains the following Apex code:

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

At the bottom of the modal are buttons: "Open Log", "Execute", and "Execute Highlighted".

Below the log table, there is a "Logs" section with tabs: Logs, Tests, Checkpoints, Query Editor, View State, Progress, and Problems. The "Logs" tab is selected. It shows a table of log entries:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:50:15	Success		2.46 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:48:07	Success		2.36 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:46:19	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:45:40	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:45:19	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:44:02	Success		2.7 KB

At the bottom of the logs section are buttons: "Filter" and "Click here to filter the log list".

Exercise – 6

Program for finding the Grade based on the Score

The screenshot shows three instances of the Salesforce Developer Console interface.

Code View:

```
1 public class StudentGrade {  
2  
3     public static void gradeCalculation(){  
4         Integer score = 85;  
5         System.debug('Your score is: '+score);  
6         if(score==100){  
7             System.debug('Grade: A+');  
8         }  
9         else if(score>=90){  
10            System.debug('Grade: A');  
11        }  
12        else if(score>=80){  
13            System.debug('Grade: B');  
14        }  
15        else{  
16            System.debug('Grade: Failed');  
17        }  
18    }  
19}
```

Logs Tab:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:59:57	Success		3.11 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:53:55	Success		2.55 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:50:15	Success		2.45 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:48:07	Success		2.35 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:46:19	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:45:40	Success		2.7 KB

Execution Log Tab:

Timestamp	Event	Details
12:59:57:014	USER_DEBUG	[5] DEBUG Your score is: 85
12:59:57:014	USER_DEBUG	[13] DEBUG Grade: B

Logs Tab (Bottom):

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:59:57	Success		3.11 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:53:55	Success		2.55 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:50:15	Success		2.45 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:48:07	Success		2.35 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:46:19	Success		2.7 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 12:45:40	Success		2.7 KB

Exercise – 7

Program to execute Apex – for loop

The screenshot shows the Salesforce Developer Console interface. At the top, there are tabs for Recently Viewed, Billing | SalesForce, and Developer Console. The URL in the address bar is `resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage`. Below the tabs, the code editor displays `BillingObj.apxc` with the following Apex code:

```
1 public class BillingObj {
2     public static void getPaidBillings(){
3         List<Billing__c> billingList = [Select Id,Name,Status__c from Billing__c Where CreatedDate=today];
4         if(!billingList.isEmpty()){
5             List<String> paidBillingList = new List<String>();
6             for(Billing__c billing : billingList){
7                 if(billing.Status__c=='Paid'){
8                     System.debug('Value of current record on which loop is iterating is Billing__c:'+billing);
9                     paidBillingList.add(billing.Name);
10                }
11            }
12            System.debug('Billing records are:' +paidBillingList);
13        }
14    }
15 }
16 }
```

Below the code editor is a table titled "Logs" showing the execution history:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:26:38	Success		6.47 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:21:51	Success		4.68 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:10:49	Success		6.48 KB

At the bottom of the logs section is a "Filter" button and a placeholder "Click here to filter the log list".

The screenshot shows the Salesforce Developer Console interface, identical to the one above, but with a different log entry. The "Logs" table now contains the following data:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:26:38	Success		6.47 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:21:51	Success		4.68 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:10:49	Success		6.48 KB

Exercise – 8

Created a Class to demonstrate constants in Apex

The screenshot shows the Salesforce Developer Console interface. At the top, there are tabs for 'Recently Viewed' (Billings), 'Billing | Salesforce', and 'Developer Console'. The main area displays the Apex class 'DiscountClass.apxc' with the following code:

```
1 public class DiscountClass {
2
3     final decimal regularDiscount = 0.5;
4     decimal finalPrice = 0;
5
6     public decimal calculateDiscount(Integer price){
7         finalPrice = price - price*regularDiscount;
8         System.debug('final price: '+finalPrice);
9         return finalPrice;
10    }
11 }
```

Below the code, the 'Logs' tab is selected, showing two log entries:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:21:51	Success		4.68 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:10:49	Success		6.48 KB

At the bottom, there is a 'Filter' button and a link 'Click here to filter the log list'.

The screenshot shows the Salesforce Developer Console interface. At the top, there are tabs for 'Recently Viewed' (Billings), 'Billing | Salesforce', and 'Developer Console'. The main area displays the Apex class 'DiscountClass.apxc' with the same code as before.

Below the code, the 'Execution Log' tab is selected, showing one log entry:

Timestamp	Event	Details
19:21:51:015	USER_DEBUG	[8] DEBUG final price: 90.0

At the bottom, there is a 'Filter' button and a link 'Click here to filter the log list'.

Below the execution log, the 'Logs' tab is also visible, showing the same log entries as the first screenshot:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:21:51	Success		4.68 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:10:49	Success		6.48 KB

At the very bottom, there is another 'Filter' button and a link 'Click here to filter the log list'.

Exercise – 9

The screenshot shows the Salesforce Developer Console interface. The top navigation bar includes tabs for Recently Viewed, Billing | Salesforce, and Developer Console. The main area displays the code for the `InterfaceExample` interface:

```
1 public interface InterfaceExample {  
2     Double percentageDiscountToBeApplied();  
3 }  
4 
```

Below the code editor is a log table:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:26:38	Success		6.47 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:21:51	Success		4.68 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:10:49	Success		6.48 KB

At the bottom of the developer console window is a filter input field: `Click here to filter the log list`.

The screenshot shows the Salesforce Developer Console interface. The top navigation bar includes tabs for Recently Viewed, Billing | Salesforce, and Developer Console. The main area displays the code for the `PremiumCustomer` class:

```
1 public class PremiumCustomer implements InterfaceExample{  
2     public Double percentageDiscountToBeApplied(){  
3         return 0.30;  
4     }  
5 }  
6 
```

Below the code editor is a log table:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:26:38	Success		6.47 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:21:51	Success		4.68 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:10:49	Success		6.48 KB

At the bottom of the developer console window is a filter input field: `Click here to filter the log list`.

Screenshot of the Salesforce Developer Console showing the execution log for a debug anonymous session.

The log shows the following entry:

```
19:39:58:017 USER_DEBUG [3] DEBUG|Percentage Discount is: 0.3
```

Below the log, there is a table of logs:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:39:58	Success		4.1 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:26:38	Success		6.47 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:21:51	Success		4.68 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:10:49	Success		6.48 KB

At the bottom, there is a code editor window showing the `normalCustomer` class implementation:

```
1 public class normalCustomer implements InterfaceExample{
2
3     public Double percentageDiscountToBeApplied(){
4         return 0.10;
5     }
6 }
```

Below the code editor is another table of logs, identical to the one above:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:39:58	Success		4.1 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:26:38	Success		6.47 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:21:51	Success		4.68 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:10:49	Success		6.48 KB

Recently Viewed | Billings | Sales | Billing | Salesforce | Developer Console

resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

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

InterfaceExample.apxc [] PremiumCustomer.apxc [] normalCustomer.apxc [] Log executeAnonymous @21/02/2023, 19:43:45 []

Execution Log

Timestamp	Event	Details
19:43:45:016	USER_DEBUG	[3][DEBUG]Percentage Discount is: 0.1

This Frame Executable Debug Only Filter Click here to filter the log

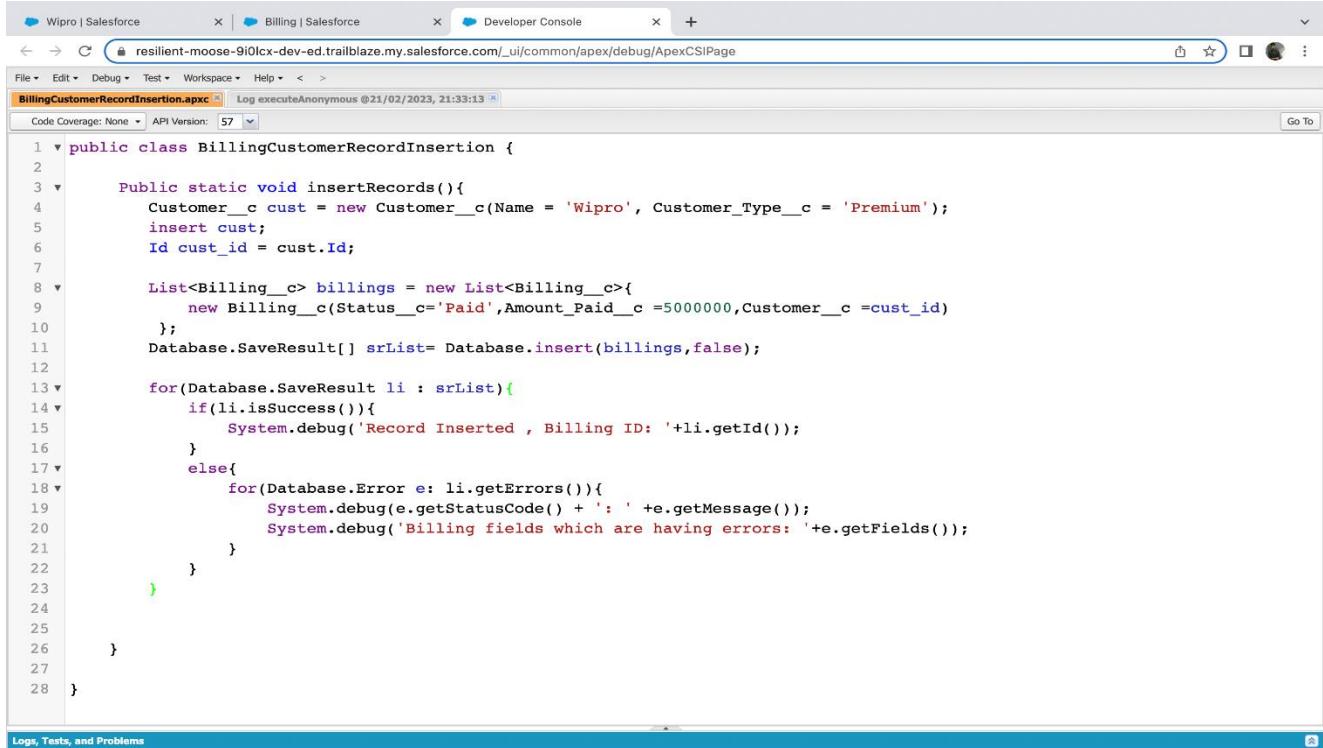
Logs Tests Checkpoints Query Editor View State Progress Problems

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:43:45	Success		4.08 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:39:58	Success		4.1 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:26:38	Success		6.47 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:21:51	Success		4.68 KB
Venkata Swamy Kadiyam	Unknown	/services/data/v57.0/tooling/execut...	21/02/2023, 19:10:49	Success		6.48 KB

Filter Click here to filter the log list

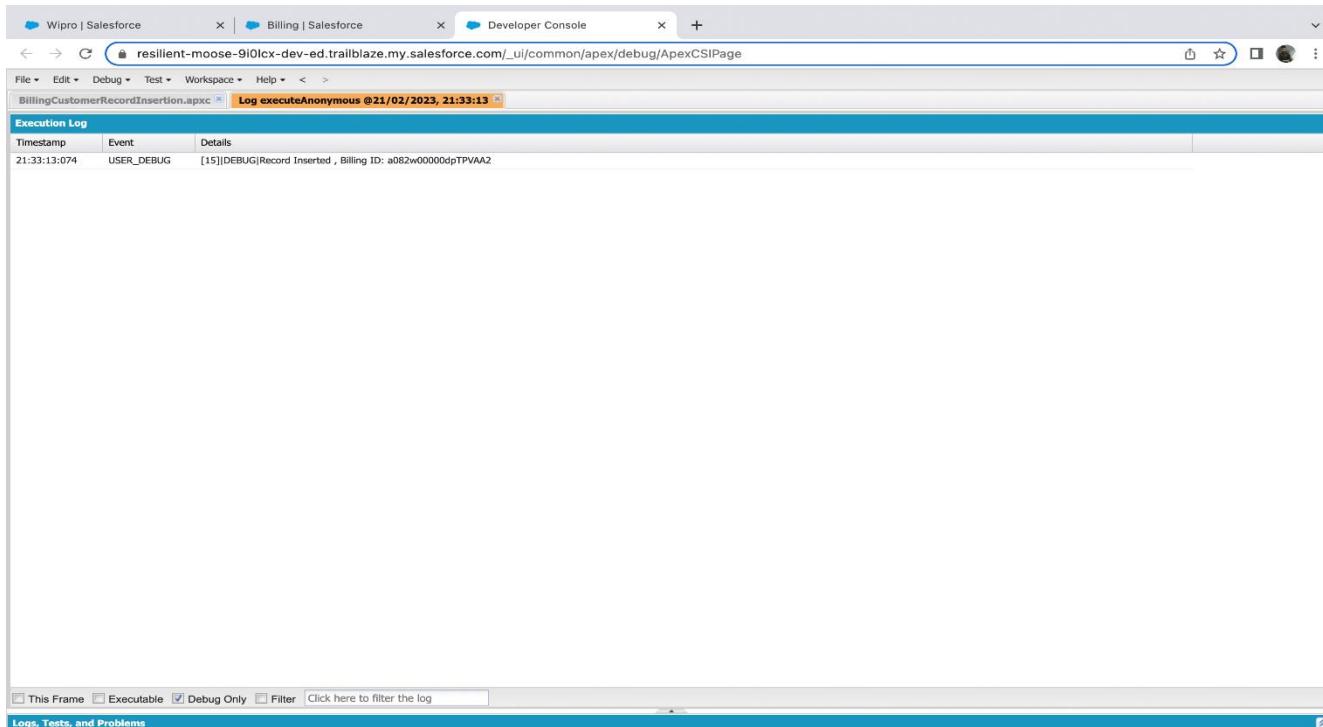
Exercise – 10

Demo on DML Insert Operation Using Database Methods



The screenshot shows the Salesforce Developer Console interface. The top navigation bar includes tabs for 'Wipro | Salesforce', 'Billing | Salesforce', and 'Developer Console'. Below the tabs, the URL is 'resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage'. The main content area displays the Apex code for 'BillingCustomerRecordInsertion.apxc'. The code creates a new Customer record for 'Wipro' with type 'Premium', inserts it, and then creates a list of Billing records (Status: Paid, Amount_Paid: 5000000) associated with the customer. It then saves the list and iterates through the results to debug any errors.

```
1 public class BillingCustomerRecordInsertion {
2
3     Public static void insertRecords(){
4         Customer__c cust = new Customer__c(Name = 'Wipro', Customer_Type__c = 'Premium');
5         insert cust;
6         Id cust_id = cust.Id;
7
8         List<Billing__c> billings = new List<Billing__c>{
9             new Billing__c(Status__c='Paid',Amount_Paid__c =5000000,Customer__c =cust_id)
10        };
11        Database.SaveResult[] srList= Database.insert(billings,false);
12
13        for(Database.SaveResult li : srList){
14            if(li.isSuccess()){
15                System.debug('Record Inserted , Billing ID: '+li.getId());
16            }
17            else{
18                for(Database.Error e: li.getErrors()){
19                    System.debug(e.getStatusCode() + ': ' +e.getMessage());
20                    System.debug('Billing fields which are having errors: '+e.getFields());
21                }
22            }
23        }
24
25    }
26
27 }
28 }
```



The screenshot shows the Salesforce Developer Console interface with the 'Execution Log' tab selected. The log table has columns for 'Timestamp', 'Event', and 'Details'. A single entry is present: '21:33:13:074 USER_DEBUG [15]DEBUG|Record Inserted , Billing ID: a082w00000dpTPVAA2'. At the bottom of the log table, there are checkboxes for 'This Frame', 'Executable', 'Debug Only', and 'Filter', along with a link 'Click here to filter the log'.

Timestamp	Event	Details
21:33:13:074	USER_DEBUG	[15]DEBUG Record Inserted , Billing ID: a082w00000dpTPVAA2

Exercise – 11

Displaying Records according to required conditions

The screenshot shows the Salesforce Developer Console interface. At the top, there are three tabs: 'Wipro | Salesforce', 'Billing | Salesforce', and 'Developer Console'. The 'Developer Console' tab is active. Below the tabs, the URL is 'resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage'. The main area displays a query result grid and the query editor.

Query Results - Total Rows: 10

AccountId	Amount	Name	StageName	Account.Industry	Account.Website
0012w00001Acr2vAAB	125000	United Oil Office Portable Generators	Negotiation/Review	Energy	http://www.uos.com
0012w00001Acr2vAAB	270000	United Oil Refinery Generators	Proposal/Price Quote	Energy	http://www.uos.com
0012w00001Acr2vAAB	120000	United Oil SLA	Closed Won	Energy	http://www.uos.com
0012w00001Acr2vAAB	270000	United Oil Installations	Negotiation/Review	Energy	http://www.uos.com
0012w00001Acr2vAAB	270000	United Oil Installations	Closed Won	Energy	http://www.uos.com
0012w00001Acr2vAAB	915000	United Oil Refinery Generators	Closed Won	Energy	http://www.uos.com
0012w00001Acr2vAAB	235000	United Oil Installations	Closed Won	Energy	http://www.uos.com
0012w00001Acr2vAAB	440000	United Oil Emergency Generators	Closed Won	Energy	http://www.uos.com
0012w00001Acr2vAAB	120000	United Oil Standby Generators	Closed Won	Energy	http://www.uos.com
0012w00001Acr2vAAB	675000	United Oil Plant Standby Generators	Needs Analysis	Energy	http://www.uos.com

Query Grid: Save Rows | Insert Row | Delete Row | Refresh Grid

Logs Tests Checkpoints Query Editor View State Progress Problems

Access in Salesforce: Create New | Open Detail Page | Edit Page

Logs Tests Checkpoints History

Query Editor: SELECT AccountId, Amount, Name, StageName, Account.Industry, Account.Website FROM Opportunity WHERE Account.Industry='Energy' AND Account.AnnualRevenue>5000

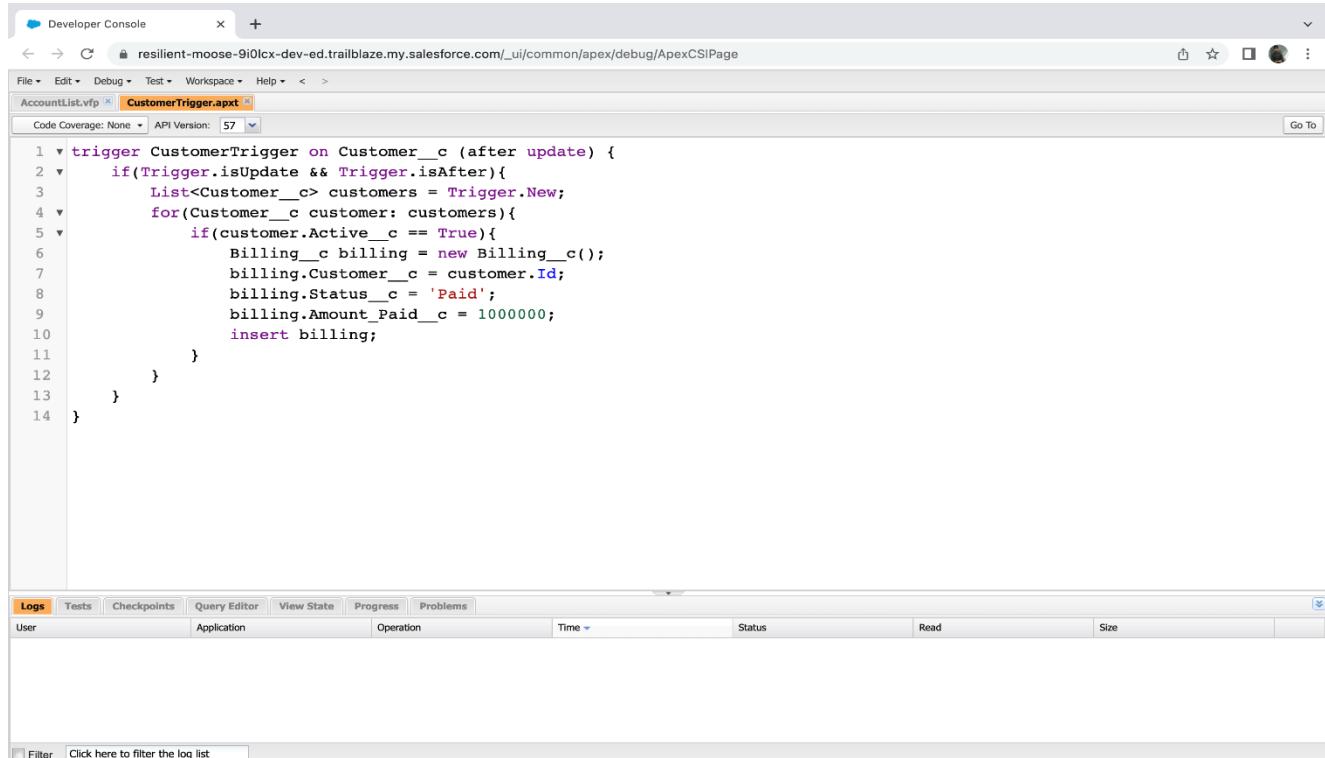
History: Executed

Any query errors will appear here...

Execute Use Tooling API

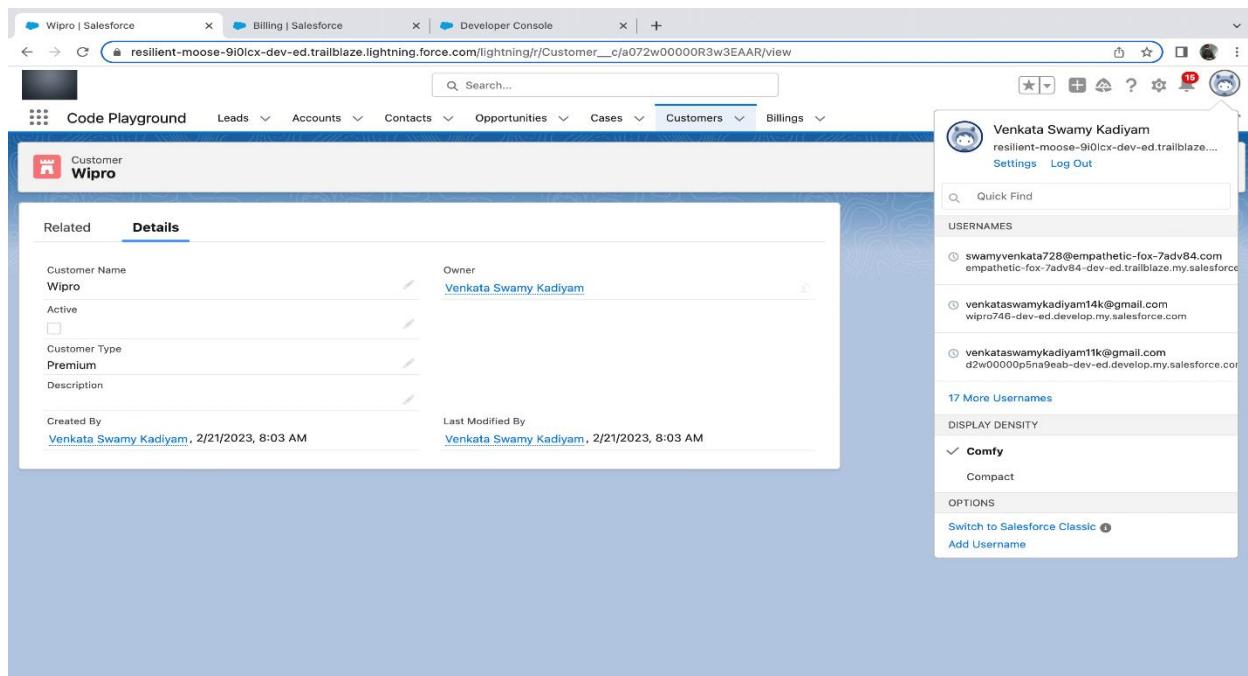
Exercise – 12

Created a Trigger for Billing Named Customer Trigger



```
trigger CustomerTrigger on Customer__c (after update) {
    if(Trigger.isUpdate && Trigger.isAfter){
        List<Customer__c> customers = Trigger.New;
        for(Customer__c customer: customers){
            if(customer.Active__c == True){
                Billing__c billing = new Billing__c();
                billing.Customer__c = customer.Id;
                billing.Status__c = 'Paid';
                billing.Amount_Paid__c = 1000000;
                insert billing;
            }
        }
    }
}
```

Updated Salesforce Customer from inactive to active



The screenshot shows the Salesforce Lightning Experience interface. A customer record for "Wipro" has been edited. In the "Active" field, which was previously unchecked, a checkmark now indicates it is active. The "Owner" field shows "Venkata Swamy Kadiyam". The "Last Modified By" field also shows "Venkata Swamy Kadiyam" with the timestamp "2/21/2023, 8:03 AM". On the right side, a sidebar displays the user profile "Venkata Swamy Kadiyam" and a list of other usernames.

The screenshot shows a Salesforce Lightning interface with three tabs at the top: 'Wipro | Salesforce', 'Billing | Salesforce', and 'Developer Console'. The active tab is 'Billing | Salesforce'. The URL in the address bar is resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/r/Customer__c/a072w00000R3w3EAAR/view. The page title is 'Customer Wipro'. The main content area displays a 'Details' card for the customer. The card includes fields: 'Customer Name' (Wipro), 'Active' (checkbox checked), 'Customer Type' (Premium), 'Description' (empty), 'Created By' (Venkata Swamy Kadiyam, 2/21/2023, 8:03 AM), and 'Last Modified By' (Venkata Swamy Kadiyam, 2/21/2023, 8:32 AM). To the right of the card is a sidebar with user settings and options.

New Record Created in Billing Object with Salesforce as Customer

The screenshot shows a Salesforce Lightning interface with three tabs at the top: 'B - 0010 | Salesforce', 'Billing | Salesforce', and 'Developer Console'. The active tab is 'Billing | Salesforce'. The URL in the address bar is resilient-moose-9i0lcx-dev-ed.trailblaze.lightning.force.com/lightning/r/Billing__c/a082w00000dpTU2AAM/view. The page title is 'Billing B - 0010'. The main content area displays a 'Details' card for the billing record. The card includes fields: 'Bill Number' (B - 0010), 'Amount Paid' (\$1,000,000), 'Customer Type' (empty), 'Status' (Paid), and 'Customer' (Wipro). 'Created By' and 'Last Modified By' fields show Venkata Swamy Kadiyam. To the right of the card is a sidebar with user settings and options.

Exercise – 13

Created a Test Class for Customer Trigger

The screenshot shows the Salesforce Developer Console interface. The top navigation bar includes tabs for 'B - 0010 | Salesforce', 'Customer | Salesforce', and 'Developer Console'. The URL in the address bar is 'resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage'. The main content area displays the code for 'CustomerTriggerTest.apxc'.

```
1  @isTest
2  public class CustomerTriggerTest {
3      @isTest
4      static void testCustomer(){
5          //Creating Customer
6          Customer__c cust1 = new Customer__c();
7          cust1.Name='test1';
8          cust1.Customer_Type__c = 'Premium';
9          insert cust1;
10
11         //Updating Customer
12         cust1.Active__c = True;
13         update cust1;
14
15         //After Updating, changing the billing information
16         if(cust1.Active__c == True){
17             Test.startTest();
18             Billing__c billing = new Billing__c();
19             billing.Status__c = 'Paid';
20             billing.Amount_Paid__c = 1000000;
21             Test.stopTest();
22             system.assertEquals('Paid', billing.Status__c);
23             system.assertEquals(1000000, billing.Amount_Paid__c);
24         }
25     }
}
```

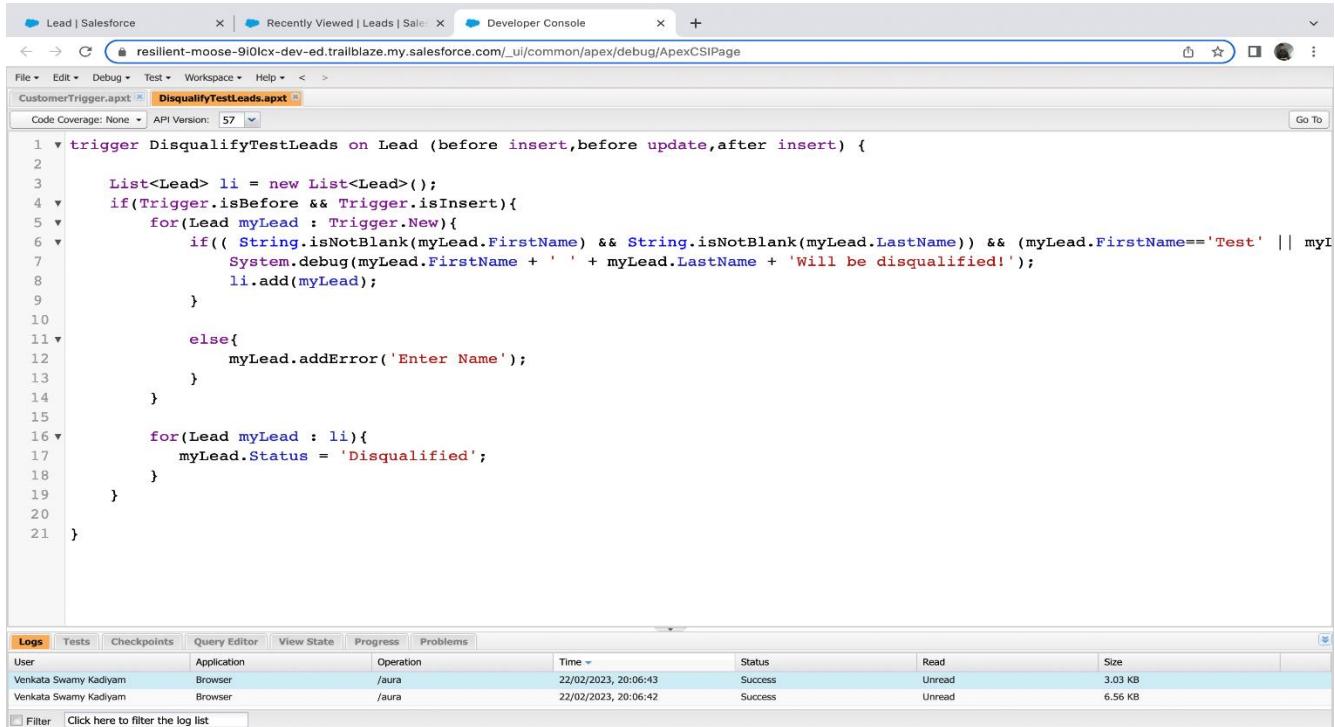
Below the code editor, there is a log table:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyan	Unknown	/services/data/v57.0/tooling/runTest..	22/02/2023, 07:46:37	Success		8.75 KB

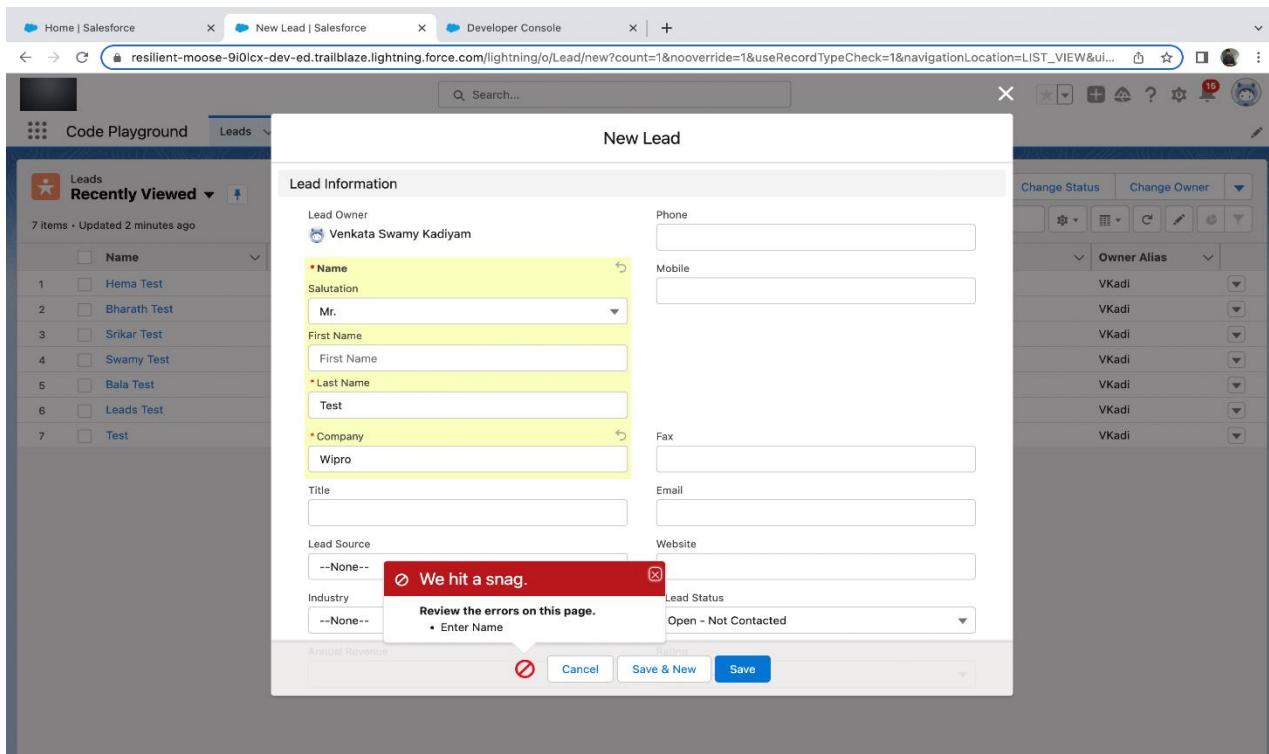
At the bottom, there is a 'Filter' button and a placeholder 'Click here to filter the log list'.

Exercise – 14

Created a Trigger for Leads Named DisqualifiedTestLeads



```
trigger DisqualifyTestLeads on Lead (before insert,before update,after insert) {  
    List<Lead> li = new List<Lead>();  
    if(Trigger.isBefore && Trigger.isInsert){  
        for(Lead myLead : Trigger.New){  
            if(( String.isNotBlank(myLead.FirstName) && String.isNotBlank(myLead.LastName)) && (myLead.FirstName=='Test' || myLead.LastName=='Test')){  
                System.debug(myLead.FirstName + ' ' + myLead.LastName + ' Will be disqualified!');  
                li.add(myLead);  
            }  
            else{  
                myLeadaddError('Enter Name');  
            }  
        }  
  
        for(Lead myLead : li){  
            myLead.Status = 'Disqualified';  
        }  
    }  
}
```



The screenshot shows the Salesforce Lightning Experience interface. A 'New Lead' form is open in the center. The 'Name' field is highlighted in yellow, indicating it is required. A red error message box is displayed, stating: '∅ We hit a snag.' and 'Review the errors on this page.' with a bullet point 'Enter Name'. The 'Lead Status' dropdown is set to 'Open - Not Contacted'. On the left, there's a sidebar titled 'Code Playground' and 'Recently Viewed' with a list of leads. On the right, there's a sidebar for 'Change Status' and 'Change Owner' with multiple entries for 'VKadi'. The top navigation bar includes links for 'Home | Salesforce', 'New Lead | Salesforce', and 'Developer Console'.

Exercise – 15

Create a test class for DisqualifyTestLeads trigger

```

1  @isTest
2  public class DisqualifyTestLeads {
3
4      @isTest
5      private static void insertData1(){
6          Lead l1 = new Lead();
7          l1.FirstName = 'Test';
8          l1.LastName = 'Test';
9          l1.Company = 'Test';
10         Test.startTest();
11         insert l1;
12         Test.stopTest();
13         System.assertEquals('Test', l1.FirstName);
14         System.assertEquals('Test', l1.LastName);
15         System.assertEquals('Test', l1.Company);
16     }
17
18
19     @isTest
20     private static void insertData2(){
21         Lead l2 = new Lead();
22         l2.LastName = 'Test';
23         l2.Company = 'Wipro';
24         Test.startTest();
25         insert l2;
26     }

```

Logs	Tests	Checkpoints	Query Editor	View State	Progress	Problems
User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Unknown	ApexTestHandler	23/02/2023, 11:49:44	Success	Unread	24.17 KB
Venkata Swamy Kadiyam	Unknown	ApexTestHandler	23/02/2023, 11:49:44	Success	Unread	34.06 KB

Recently Viewed | Leads | Sales | Home | Salesforce | Developer Console

resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage

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

DisqualifyTestLeads.apxc DisqualifyTestLeads.apxt

Code Coverage: None ▾ API Version: 57 ▾ Run Test Go To

```
1    @isTest
2    testClass
3    {
4        11.Company = 'Test';
5        Test.startTest();
6        insert 11;
7        Test.stopTest();
8        System.assertEquals('Test', 11.FirstName);
9        System.assertEquals('Test', 11.LastName);
10       System.assertEquals('Test', 11.Company);
11   }
12
13
14
15
16
17
18
19     @isTest
20     private static void insertData2(){
21         Lead l2 = new Lead();
22         l2.LastName = 'Test';
23         l2.Company = 'Wipro';
24         Test.startTest();
25         insert l2;
26         Test.stopTest();
27         System.assertEquals(null, l2.FirstName);
28         System.assertEquals('Test', l2.LastName);
29         System.assertEquals('Test', l2.Company);
30     }
31
32
33 }
```

Logs Tests Checkpoints Query Editor View State Progress Problems

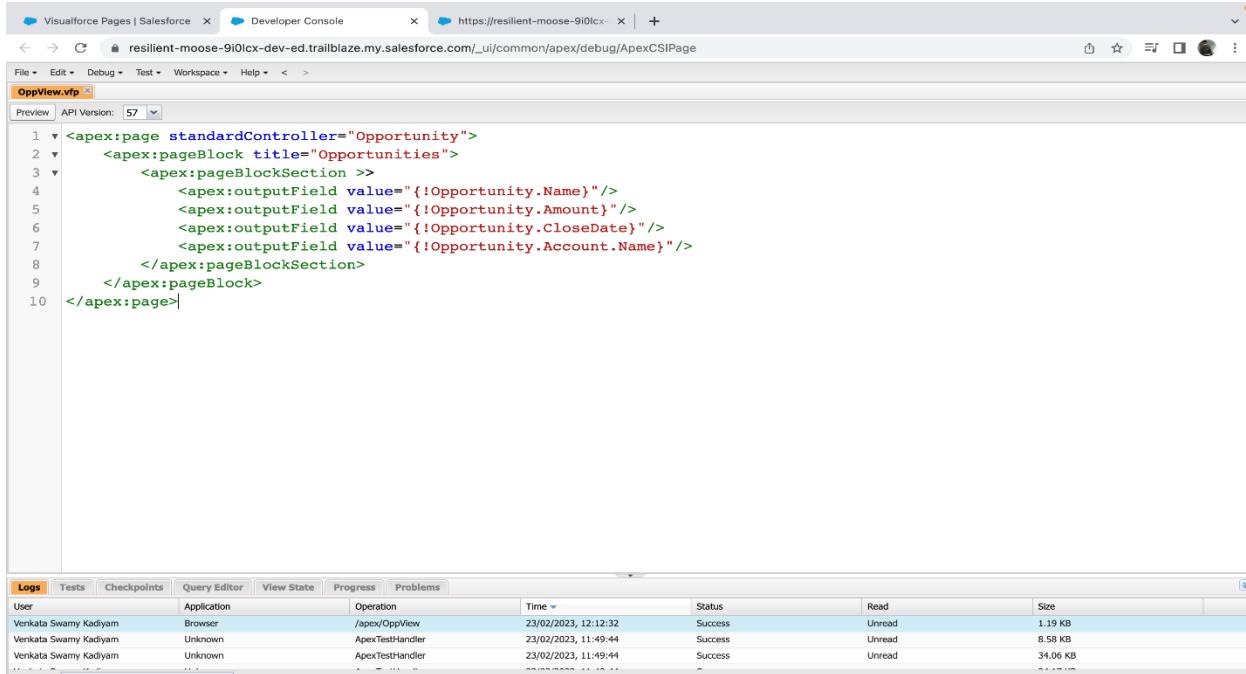
Status	Test Run	Enqueued Time	Duration	Failures	Total	Overall Code Coverage
x	TestRun @ 10:11:15 am			1	2	Class
x	7072w00008LG7Q	Thu Feb 23 2023 10:11:31 GM...		0	2	Percent
x	TestRun @ 11:48:57 am			1	2	Lines

Overall Code Coverage

Class	Percent	Lines
DisqualifyTestLeads	100%	8/8
ForgotPasswordController	88%	8/9

Exercise – 16

Created a Visualforce Page OppView and displayed four apex : outputfields



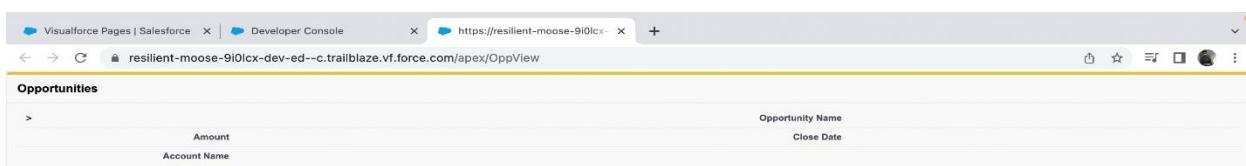
The screenshot shows the Salesforce Developer Console interface. At the top, there are tabs for "Visualforce Pages | Salesforce", "Developer Console", and a URL "https://resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage". Below the tabs, the page title is "OppView.vfp". The main area displays the Apex page source code:

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

Below the code editor, there is a "Logs" tab which contains a table of log entries:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Browser	/apex/OppView	23/02/2023, 12:12:32	Success	Unread	1.19 KB
Venkata Swamy Kadiyam	Unknown	ApexTestHandler	23/02/2023, 11:49:44	Success	Unread	8.59 KB
Venkata Swamy Kadiyam	Unknown	ApexTestHandler	23/02/2023, 11:49:44	Success	Unread	34.06 KB

At the bottom of the logs section, there is a "Filter" input field and a placeholder "Click here to filter the log list".



Exercise – 17

Created a Visualforce Page that shows a list of Accounts linked to their record Pages

The screenshot shows the Salesforce Developer Console interface. At the top, there are three tabs: "All Accounts | Accounts | Sales" (active), "Developer Console" (inactive), and a third tab with a URL. Below the tabs is a toolbar with icons for File, Edit, Debug, Test, Workspace, and Help. The main area displays the Visualforce page source code for "AccountList.vfp". The code uses standardController="Account" and recordSetVar="Accounts" to list accounts. It includes an apex:repeat loop to iterate over accounts, outputting links to each account's detail page. Below the code editor is a "Logs" section containing a table of log entries. The table has columns for User, Application, Operation, Time, Status, Read, and Size. There are four log entries from the same user, all successful and unread, with sizes of 1.2 KB.

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Browser	/apex/AccountList	23/02/2023, 18:46:35	Success	Unread	1.2 KB
Venkata Swamy Kadiyam	Browser	/apex/AccountList	23/02/2023, 18:46:31	Success	Unread	1.2 KB
Venkata Swamy Kadiyam	Browser	/apex/AccountList	23/02/2023, 18:44:30	Success	Unread	1.2 KB

The screenshot shows the Salesforce developer console with a list of account names displayed. The list includes: Burlington Textiles Corp of America, Dickenson.plc, Edge Communications, Express Logistics and Transport, Flow Account, GenePoint, Grand Hotels & Resorts Ltd, New Flow Account, New Flows Account, Pyramid Construction Inc., Sample Account for Entitlements, sForce, United Oil & Gas Corp., United Oil & Gas, Singapore, United Oil & Gas, UK, and University of Arizona.

Exercise – 18

Created a VF page that uses a Apex class to display a list of cases with the status of ‘New’.

The screenshot shows the Salesforce Developer Console interface. At the top, there are three tabs: "Visualforce Pages | Salesforce", "Developer Console", and a browser tab showing the URL https://resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage. Below the tabs, the main area displays the Apex code for the controller:

```
1 public class NewCaseListController {
2     List<case> newcase = new List<case>();
3     public list<case> GetNewCases(){
4         newcase = [Select Id,CaseNumber from case where Status='New'];
5         return newcase;
6     }
7 }
```

Below the code editor is a "Logs" table showing application logs:

User	Application	Operation	Time	Status	Read	Size
Venkata Swamy Kadiyam	Browser	/apex/NewCaseList	23/02/2023, 18:13:10	Success	Unread	3.6 KB
Venkata Swamy Kadiyam	Browser	/apex/AccountList	23/02/2023, 18:12:35	Success	Unread	1.2 KB
Venkata Swamy Kadiyam	Browser	/apex/AccountList	23/02/2023, 16:59:29	Success	Unread	1.2 KB

At the bottom of the logs table is a "Logs" button and a link "Click here to filter the log list".

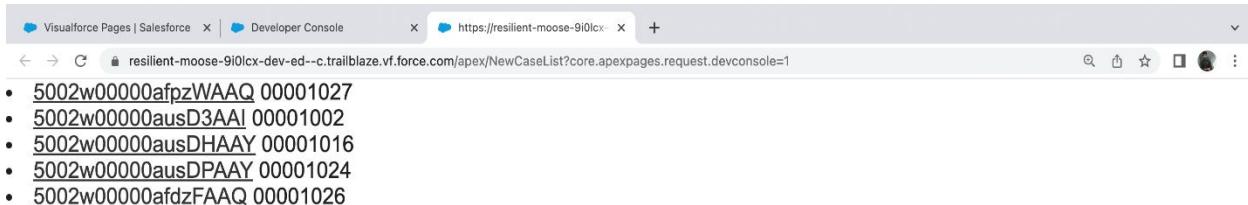
The screenshot shows the Salesforce Developer Console interface. At the top, there are three tabs: "Visualforce Pages | Salesforce", "Developer Console", and a browser tab showing the URL https://resilient-moose-9i0lcx-dev-ed.trailblaze.my.salesforce.com/_ui/common/apex/debug/ApexCSIPage. Below the tabs, the main area displays the Visualforce page code:

```
1 <apex:page controller="NewCaseListController">
2     <apex:repeat var="case" value="={!NewCases}">
3         <li>
4             <apex:outputLink value="/{!case.id}">{!case.id}</apex:outputLink>
5             {!case.CaseNumber}
6         </li>
7     </apex:repeat>
8 </apex:page>
```

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- [5002w00000afpzWAAQ](#) 00001027
- [5002w00000ausD3AAI](#) 00001002
- [5002w00000ausDHAAY](#) 00001016
- [5002w00000ausDPAAY](#) 00001024
- [5002w00000afdzFAAQ](#) 00001026

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](#)