

AIRLINES MANAGEMENT SYSTEM

Team ID : LTVIP2024TMID11598

Team Size : 4

Team member : K N CHANDRA SEKHAR

Airlines Management System

Hardware Required:

laptops

System Required:

Windows 8 machine Install with two web browser Bandwidth of 30mbps

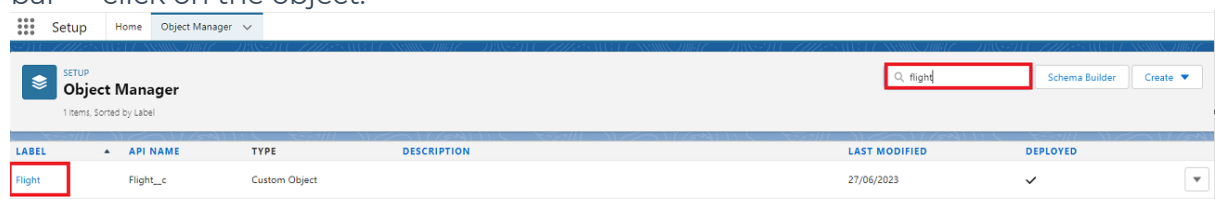
This project aims to enhance the efficiency and effectiveness of managing flights, reservations, and passenger information. The system enables airlines to manage their fleet, schedule flights, allocate seats, and handle bookings seamlessly. It provides functionalities for ticket reservations, seat availability checks, passenger check-ins, and baggage handling. Additionally, the system facilitates communication between airlines, airports, and passengers through automated notifications and alerts. With its user-friendly interface and robust database management, the Airlines Management System optimizes workflow, improves customer satisfaction, and ensures smooth operations for the entire airline industry.

FIELDS

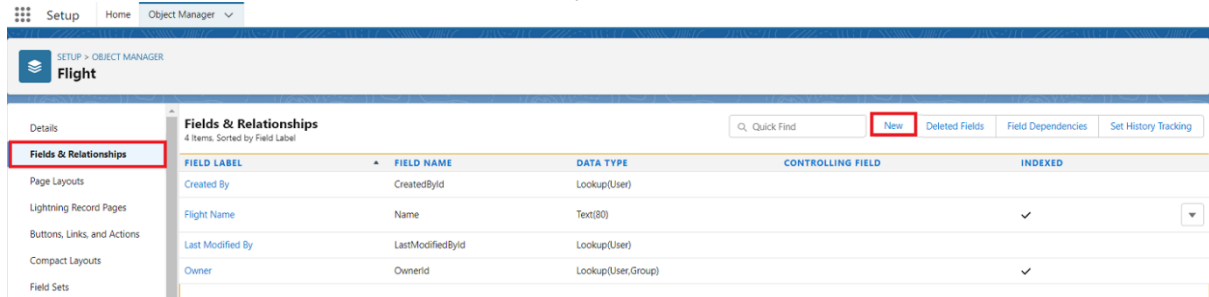
Activity 1: Creating Field In Flight Object

To create fields in an object:

1. Go to setup --> click on Object Manager --> type object name(Flight) in quick find bar--> click on the object.



2. Now click on “Fields & Relationships” --> New



3. Select Data type as “Number”.

☐ Email
 Allows users to enter an email address, which is validated to ensure proper format. If this field is specified for a contact or lead, email addresses cannot be used for mass emails.

☐ Geolocation
 Allows users to define locations. Includes latitude and longitude components, and can be used to calculate distance.

☒ **Number**
 Allows users to enter any number. Leading zeros are removed.

☐ Percent
 Allows users to enter a percentage number, for example, '10' and automatically adds the percent sign to the number.

☐ Phone
 Allows users to enter any phone number. Automatically formats it as a phone number.

4. Click on Next

Flight
New Custom Field

Step 2. Enter the details

Field Label: Capacity

Please enter the length of the number and the number of decimal places. For example, a number with a length of 8 and 2 decimal places can accept values up to "12345678.90".

Length: 18
Number of digits to the left of the decimal point

Decimal Places: 0
Number of digits to the right of the decimal point

Field Name: Capacity

Description:

Help Text:

Previous Next Cancel

- Fill the above as following:
 - Field Label: Capacity
 - Length : 18
 - Field Name : gets auto generated
 - Click on Next ? Next --> Save and new.

Activity 3: Delete A Record(Passenger)

- Click on App Launcher on the left side of the screen.
- Search AirLine Management System & click on it.
- Click on the Passenger Tab.
- Click on Arrow at right hand side on that Particular record.
- Click delete.

Activity 2: Creating Departure Date On Booking Object

1. Go to setup ? click on Object Manager ? type object name(Booking) in quick find bar? click on the object.
2. Now click on “Fields & Relationships” ? New.
3. Select Data type as “Date” and click Next.

<input type="radio"/> Checkbox	Allows users to select a True (checked) or False (unchecked) value.
<input type="radio"/> Currency	Allows users to enter a dollar or other currency amount and automatically formats the field as a currency amount. This can be useful if you export data to Excel or another spreadsheet.
<input checked="" type="radio"/> Date	Allows users to enter a date or pick a date from a popup calendar.
<input type="radio"/> Date/Time	Allows users to enter a date and time, or pick a date from a popup calendar. When users click a date in the pop-up, that date and the current time are entered into the Date/Time field.
<input type="radio"/> Email	Allows users to enter an email address, which is validated to ensure proper format. If this field is specified for a contact or lead, users can choose the address when clicking Send an Email. Note that custom email addresses cannot be used for mass

4. Click on Next.
5. Fill the above as following:
 - a. Field Label:Departure Date.
 - b. Field Name : gets auto generated.
 - c. Click on Next --> Next --> Save and new.

Activity 3: Creating Picklist Field On Flight Object.

1. Go to setup --> click on Object Manager --> type object name(Flight) in quick find bar--> click on the object.
2. Now click on “Fields & Relationships” -->New.
3. Select Data type as “Picklist” and click Next.
4. Enter Field Label as “Departs From”, under values select “Enter values, with each value separated by a new line” and enter values as shown below:

Delhi
Mumbai
Bengaluru
Chennai
Kolkata

Flight
New Custom Field

Help for this Page

Step 2. Enter the details

Step 2 of 4

Previous Next Cancel

Field Label:

Values:

☐ Use global picklist value set

☒ Enter values, with each value separated by a new line

☐ Display values alphabetically, not in the order entered

5. Click Next--> Next --> Next --> Save & New.

Activity 4: Creating Lookup Relationship Between Flight And Booking

Creating Lookup Relationship between Flight & Booking Object

To Create a lookup relationship

1. Go to the setup page --> click on object manager --> type object name(Booking) in the quick find bar--> click on the object.
2. Click on fields & relationship --> click on New.
3. Select "lookup relationship" as data type and click Next.
4. For field label related to: select "Flight" object and click Next.
5. Give Field Label as "Flight" and click Next.
6. Next --> Next --> Save.

Activity 5: Creating Remaining Fields

Now create the remaining fields using the data types mentioned in the table.

Sl No	Object	Field	Datatype
1	Passenger	1. Name 2. Phone 3. Passport Number 4. Passport Issue Date 5. Passport Expiry Date 6. Date of Birth 7. Nationality	Text Phone Number Date Date Date Picklist : Values as below <div> India China USA Canada Mexico Australia South Korea North Korea Germany </div>
2	Booking	1. Passenger Name 2. Departs From 3. Departs To 4. Travellers 5. Class	Lookup relationship with Passenger Picklist : Values are same as Activity 3 Picklist : Values are same as Activity 3 Picklist : Values as below <div> Adult Child Infant </div> Picklist : Values as below <div> Economy Business First Class </div>

3	Flight	<ol style="list-style-type: none"> 1. Departs to 2. PNR Number 3. Departure Date 4. Departure Time 5. Arrival Time 	Picklist : Values are same as Activity 3 Number Date Time Time
4	Crew	<ol style="list-style-type: none"> 1. Flight 2. Crew Member 3. Phone 4. Email 5. Qualification 6. Role 	Lookup relationship with Flight Text(20) Phone Email Text Picklist: Values as below <div> Pilot Co-Pilot Flight Attendants Air Hosts Air Hostesses Air Stewards Air Stewardesses On-Board Chefs </div>

Activity 6: Creating Field Dependencies

To create a field dependency:

1. Go to object manager --> select the object (flight) --> click fields & relationships --> click "Field Dependencies".

Setup Home Object Manager

Flight

Details

Fields & Relationships

9 Items, Sorted by Field Label

Q Quick Find New Deleted Fields Field Dependencies Set History Tracking

FIELD LABEL	FIELD NAME	DATA TYPE	CONTROLLING FIELD	INDEXED
Created By	CreatedById	Lookup(User)		
Currency	Currency__c	Picklist		
Departs From	Departs_From__c	Picklist		
Departs to	Departs_to__c	Picklist		
Departure Date	Departure_Date__c	Date		

2. Click "New" under Field Dependencies.

Flight Field Dependencies

« [Back to Custom Object: Flight](#)

This page allows you to define dependencies between fields (e.g., dependent picklists).

Field Dependencies

New

No dependencies defined.

3. Select "Departs From" for Controlling Field.

4. Select “Departs to” for Dependent Field and click Continue.

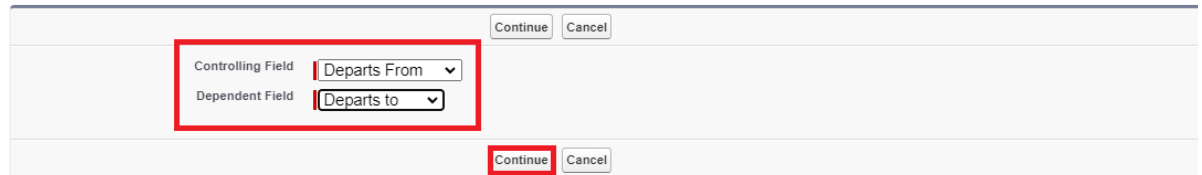
New Field Dependency

Create a dependent relationship that causes the values in a picklist or multi-select picklist to be dynamically filtered based on the value selected by the user in another field.

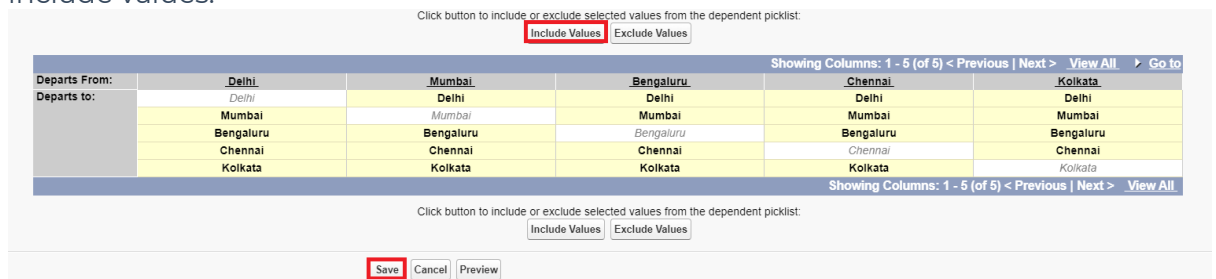
- The field that drives filtering is called the “controlling field.” Standard and custom checkboxes and picklists with at least one and less than 300 values can be controlling fields.
- The field that has its values filtered is called the “dependent field.” Custom picklists and multi-select picklists can be dependent fields.

Step 1. Select a controlling field and a dependent field. Click Continue when finished.

Step 2. On the following page, edit the filter rules that control the values that appear in the dependent field for each value in the controlling field.



5. While pressing CTRL button select the values as shown below and click on include values.



Departs From:	Delhi	Mumbai	Bengaluru	Chennai	Kolkata
Departs to:	Delhi	Delhi	Delhi	Delhi	Delhi
	Mumbai	Mumbai	Mumbai	Mumbai	Mumbai
	Bengaluru	Bengaluru	Bengaluru	Bengaluru	Bengaluru
	Chennai	Chennai	Chennai	Chennai	Chennai
	Kolkata	Kolkata	Kolkata	Kolkata	Kolkata

6. Click on Save.

Activity 7

Create similar Field dependencies for booking object as we have done in activity 6.

Activity 8: Schema Builder

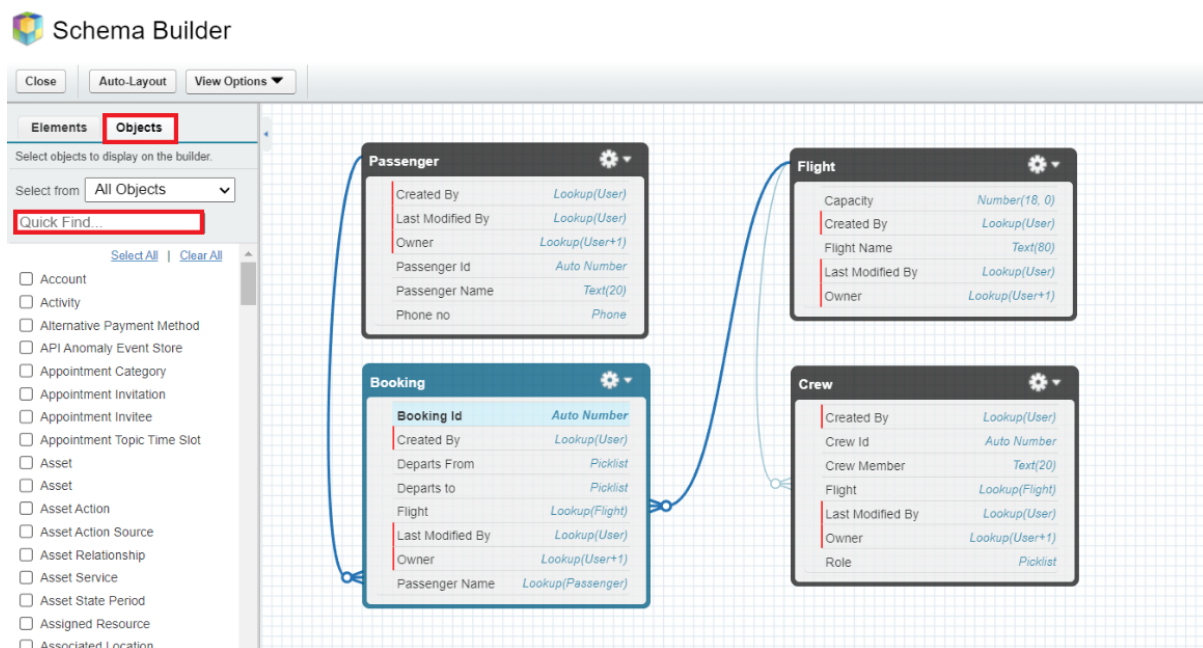
Schema Builder is a powerful tool within Salesforce that allows you to visualise, explore, and design the relationships between objects in your Salesforce organisation. It provides a graphical representation of the data model, making it easier to understand the structure and connections between different objects.

Creating Schema Builder

1. Go to setup --> click on Object Manager --> Schema Builder.

LABEL	API NAME	TYPE	DESCRIPTION	LAST MODIFIED	DEPLOYED
Account	Account	Standard Object			
Account Brand	AccountBrand	Standard Object			
Activity	Activity	Standard Object			
Alternative Payment Method	AlternativePaymentMethod	Standard Object			
API Anomaly Event Store	ApiAnomalyEventStore	Standard Object			
Appointment Category	AppointmentCategory	Standard Object			
Appointment Invitation	AppointmentInvitation	Standard Object			
Appointment Invitee	AppointmentInvitee	Standard Object			
Appointment Topic Time Slot	AppointmentTopicTimeSlot	Standard Object			
Asset	Asset_c	Custom Object		6/19/2023	✓
Asset	Asset	Standard Object			
Asset Action	AssetAction	Standard Object			
Asset Action Source	AssetActionSource	Standard Object			

2. Click on Clear All
3. Select objects--> Enter Objects which we have created in the above Milestone 2 (Passenger, Booking, Flight & Crew) in a quick box and select them.

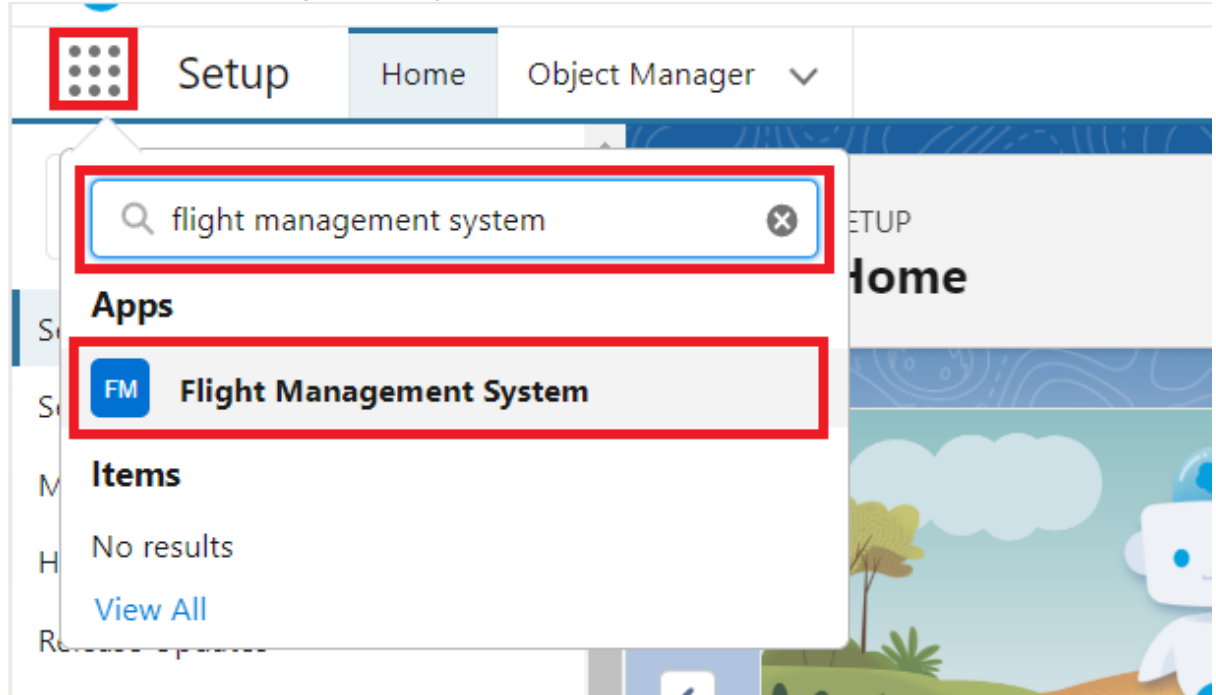


MILESTONE 6 - USER ADOPTION

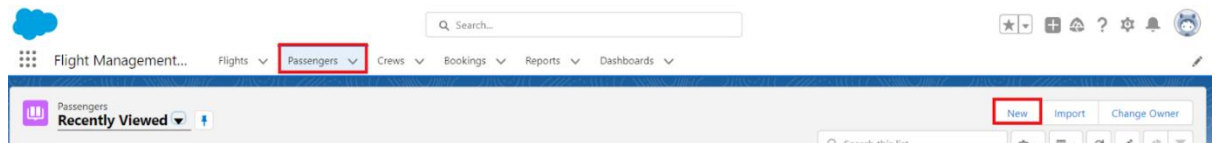
Activity 1: Create A Record (Passenger)

1. Click on App Launcher on the left side of the screen.

2. Search AirLine Management System & click on it.



3. Click on the Passenger tab.
4. Click New.



5. Fill the Details and click on Save.

Activity 2: View A Record(Passenger)

1. Click on App Launcher on the left side of the screen.
2. Search AirLine Management System & click on it.
3. Click on the Passenger Tab.
4. Click on any record name. you can see the details of the Passenger.

Activity 3: Delete A Record(Passenger)

1. Click on App Launcher on the left side of the screen.
2. Search AirLine Management System & click on it.
3. Click on the Passenger Tab.
4. Click on Arrow at right hand side on that Particular record.
5. Click delete.

Activity 4:

Create at least 10 records for each of the objects: Passenger, Booking, Flight, Crew.

MILESTONE 7 : PROFILES

Activity 1: General Admin Profile

To create a new profile:

1. Go to setup --> type profiles in quick find box --> click on profiles --> clone the desired profile (Standard Platform User)-->enter profile name (General Admin)--> Save.

Clone Profile

Enter the name of the new profile.

You must select an existing profile to clone from.

Existing Profile	Standard Platform User
User License	Salesforce Platform
Profile Name	<input type="text" value="General Admin"/>

Save **Cancel**

2. While still on the profile page, then click Edit.
3. Scroll down to Custom Object Permissions and Give access permissions for read, create and edit on Passenger, and booking objects.

	Basic Access				Data Administration	
	Read	Create	Edit	Delete	View All	Modify All
Assets	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Asset Services	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Billings	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Bookings	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Candidates	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Crews	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Customer Orders	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Employees	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Employment Websites	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Flights	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Items	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Jewel Customers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	Basic Access				Data Administration	
	Read	Create	Edit	Delete	View All	Modify All
Job Applications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Leaves	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Passengers	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Positions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Prices	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Projects	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
ProjectTasks	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Reviews	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sessions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Students	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
StudentSessions	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trainers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

4. Scroll down and Click on Save.

Activity 2: Management Admin Profile

1. Go to setup --> type profiles in quick find box --> click on profiles --> clone the desired profile (Standard Platform User) --> enter profile name (Management Admin) --> Save.
2. While still on the profile page, then click Edit.
3. Scroll down to Custom Object Permissions and Give access permissions for read, edit and create Flight and Crew.
4. Scroll down and Click on Save.

Activity 3: Create Senior Admin & Crew Member Profiles

Create Crew Member Profile for Crew Members and give them access permission to read only as we have done in the previous activity.

Create Senior Admin Profiles for Senior Admin in the Organization and give him access permission to read, create, edit and delete for all 4 objects.

Note: for Senior Admin clone System Administrator profile.