

Library Management System

21K-3153

Bilal Ali

Task 1: BiAl Solution




Display name ▾		Name ▾	Created ↓ ▾	Version ▾	Publisher ▾	
MUAB	⋮	MUAB	23 hours ago	1.0.0.0	CDS Default Publ...	
BiAl	⋮	BiAl	1 day ago	1.0.0.0	CDS Default Publ...	
ALKH	⋮	ALKH	1 day ago	1.0.0.0	CDS Default Publ...	
AlSh	⋮	AlSh	1 week ago	1.0.0.0	Default Publisher...	
Common Data Services Def...	Preferred solution	⋮	Cra384b	1 week ago	1.0.0.0	CDS Default Publ...
Default Solution	⋮	Default	1 week ago	1.0	Default Publisher...	

Task 2:

Library Management System-BiAl	⋮	1 day ago	Isaiah Langer	Model-driven
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Task 3 (Book entity main form screenshot):

Book-Bilals					
Book Title * ▾	Created On ▾	Publish Year * ▾	Check Out * ▾	Check Out Date ▾	Planned C
Dante's Inferno	12/14/2024 6:26 PM	2002	Yes	11/1/2024 12:00 AM	11/12/2024 1
The Way of Kings	12/14/2024 6:35 PM	2016	Yes	12/18/2024 12:00 AM	12/28/2024 1
Enter text		Enter text		Enter or pick date	Enter or pick d

 Planned Check In Date ▾		0.0 Cover Price ▾	 Book Categ... ▾	 Check Out Contact ▾
	11/12/2024 12:00 AM	100.50	Literature	Jim Glynn (sample)
	12/28/2024 12:00 AM	200.50	Art	Nancy Anderson (sample)
	Enter or pick date	Enter decimal	Select option	Select lookup

Edit column

Previously called fields. [Learn more](#)

Display name *

Book Title

Description ⓘ

Data type * ⓘ

Single line of text

Format *

Text

Behavior ⓘ

Simple

Required ⓘ

Business required

Searchable ⓘ

[Advanced options](#) ▾

Edit column


Previously called fields. [Learn more](#)

Display name *

Publish Year

Description ⓘ

Data type * ⓘ

 Single line of text



Format *

 Text



Behavior ⓘ

Simple



Required ⓘ

Business required



☒ Searchable ⓘ

[Advanced options](#) ▾



Display name *

Check Out

Description ⓘ

Data type * ⓘ

☐ Yes/no



Behavior ⓘ

Simple



Required ⓘ

Business required



☐ Searchable ⓘ

Choices

	Label *	Value
⋮ <input type="checkbox"/>	No	0
⋮ <input type="checkbox"/>	Yes	1

Default choice *

No



Advanced options ▾

Save

Cancel

Edit column

Previously called fields. [Learn more](#)

Display name *

Description ⓘ

Data type * ⓘ



Format *



Behavior ⓘ



Required ⓘ

☐ Searchable ⓘ

[Advanced options](#) ▾

Edit column


Previously called fields. [Learn more](#)

Display name *

Planned Check In Date

Description ⓘ

Data type * ⓘ

 Date and time

▼

Format *

 Date and time

▼

Behavior ⓘ

Simple

▼

Required ⓘ

Optional

▼

☐ Searchable ⓘ

[Advanced options](#) ▼

Edit column

Previously called fields. [Learn more](#)

Display name *

Description ⓘ

Data type * ⓘ



Behavior ⓘ



Required ⓘ

☐

Searchable ⓘ

Advanced options ▾

☐ Searchable ⓘ

☐ Selecting multiple choices is allowed

Sync with global choice? *






☐ Yes (recommended)

Can be used in multiple tables, and will stay updated everywhere.

☒ No

Creates a local choice that can only be used in one table. People using it can add new choices.

Choices

	Label *	Value *
⋮ 	Literature	252,830,000
⋮ 	Art	252,830,001
⋮ 	Science	252,830,002
⋮ 	Textbook	252,830,003
⋮ 	Engineering	252,830,004

+ New choice

Default choice *

None ▼

Advanced options ▼

Save

Cancel

Edit column

Previously called fields. [Learn more](#)

Display name *

Description ⓘ

Data type * ⓘ



Required ⓘ



☒ Searchable ⓘ

Related table *



[Advanced options](#) ▾

Save

Cancel



Edit column

Previously called fields. [Learn more](#)

Display name *

ISBN

Description ⓘ

Data type * ⓘ

Single line of text

Format *

Text

Behavior ⓘ

Simple

Required ⓘ

Business recommended

☐ Searchable ⓘ

[Advanced options](#) ▾

Save

Cancel

Task 4:

The image displays two screenshots of the Microsoft Power Apps 'New Contact' form editor interface. The top screenshot shows the 'Summary' tab selected in the Properties pane, and the bottom screenshot shows the 'SubgridBilal' subgrid selected.

Top Screenshot: Summary Tab

- Form Title:** New Contact
- Owner:** Isaiah Langer
- Summary Tab:** Address 1: Country/Region, New SG control 1734168575702, SubgridBilal, Get Directions, Map is disabled for this organization.
- Properties Pane (Summary Tab):**
 - Display options:** Label (Summary), Name (SUMMARY_TAB), Expand this tab by default (checked), Expand first component to full tab (unchecked), Hide on phone (unchecked), Hide (unchecked).
 - Formatting:** Layout (3 columns), Column 1 Width (33), Column 2 Width (42).

Bottom Screenshot: SubgridBilal Subgrid

- Form Title:** New Contact
- Owner:** Isaiah Langer
- SubgridBilal Subgrid:** SubgridBilal, No data available, 0 - 0 of 0, Page 1.
- Properties Pane (SubgridBilal Subgrid):**
 - Display options:** Label (SubgridBilal), Name (SubgridBilal), Hide label (unchecked), Hide on phone (unchecked), Show related records (unchecked).
 - Table:** Book-Bilals.
 - Default view:** Active Books, Add view (+), Allow users to change view (unchecked), Hide search box (checked).
 - Default chart:** Select an option.

Task 5:

The screenshot shows the Power Apps Business Rule Designer interface. The main canvas displays a flowchart with a purple box labeled "Condition Duplicate Detection - Bilal" connected to a green box labeled "Show Error Message New Action". Below the canvas is a "Business Rule (Text View)" window showing the logic: "IF ISBN equals ISBN THEN Show the error message 'Duplicate ISBN Number, cannot add book' against field ISBN". On the right, the "Properties" pane is open, showing the rule configuration for "Book-Bilal". The "Rules" section shows a rule with Source "Entity", Field "ISBN", Operator "Equals", Type "Field", and Value "ISBN". The "Condition Expression (Text View)" shows "(ISBN Equals [ISBN])". Buttons for "Apply" and "Discard" are at the bottom.

This screenshot shows the same Power Apps Business Rule Designer interface, but with the "Show Error Message New Action" box selected. The "Properties" pane on the right now shows the configuration for this action. The "Display Name" is "New Action". The "Entity" is "Book-Bilal". The "Error Message" section shows a dropdown for "ISBN" and a text box containing the message "Duplicate ISBN Number, cannot add book". The "Business Rule (Text View)" window remains the same. Buttons for "Apply" and "Discard" are at the bottom.

Task 6: Workflow 1:

Power Apps

File Save and Close Activate Convert to a real-time workflow Show Dependencies Solution Layers Actions Help

Process: EmailWorkflowBilal Working on solution: BIAI

Information

We recommend using [Microsoft Flow](#) instead of background workflows. [Click here](#) to start building Flows!

Common

- Information
- Audit History
- Catalog Assignments
- Comments
- SLA Items
- PM Recordings
- Copilot components
- Card

Process Sessions

- Process Sessions

General Administration Notes

Hide Process Properties

Process Name * EmailWorkflowBilal

Activate As Process

Available to Run

- ☒ Run this workflow in the background (recommended)
- ☐ As an on-demand process
- ☐ As a child process

Workflow Job Retention

- ☒ Automatically delete completed workflow jobs (to save disk space)

Entity Book-Bilal

Category Workflow

Options for Automatic Processes

Scope User

Start when:

- ☐ Record is created
- ☐ Record status changes
- ☐ Record is assigned
- ☒ Record fields change [Select](#)
- ☐ Record is deleted

Add Step Insert Delete this step.

Type a step description here.

If Book-Bilal:Check Out equals Yes, then:

- Send an email to the student

Send email: Create New Message Set Properties

Status: Draft

Send Email

From: {Owner(Book-Bilal)}

To: {Check Out Contact(Book-Bilal)}

Cc:

Bcc:

Subject:

Reminder that you have borrowed one of our books.

Regarding:

Duration: 1 minute

Additional Fields

Accepting Entity: Actual End

Additional Parameters:

Form Assistant

Dynamic Values

Operator:

Set to:

Look for:

Book-Bilal

Check Out Contact

Add

OK

Task 6: Workflow 2:

Task: New Task - Microsoft Dynamics 365 - Mozilla Firefox

https://orgb27591a4.crm5.dynamics.com/sfa/workflow/edit.aspx?2_CreateFromId={e51d8cc7-fbb9-ef11-a72f-0022485617cb}&CreateFromId={e51d8cc7-fbb9-ef11-a72f-0022485617cb}&stepId=CreateStep38entib

You are sharing your entire screen. [Stop Sharing](#)

Process: AdminWorkflowBilal

Create Task

Subject *

Description

Due Date will be the planned check out date

Regarding

Duration

Additional Fields

Additional Parameters

Actual End Actual Start

Category

Owner

Priority

Start Date

Sort Date

Currency

Sub-Category

Form Assistant

Dynamic Values

Operator:

Look for:

Book:

Add

Default value:

OK

Status: Draft

Process: AdminWorkflowBilal

Information

We recommend using [Microsoft Flow](#) instead of background workflows. [Click here](#) to start building Flow!

General Administration Notes

Process Name *

Activate As

Available to Run

☒ Run this workflow in the background (recommended)

☐ As an on-demand process

☐ As a child process

Workflow Job Retention

☒ Automatically delete completed workflow jobs (to save disk space)

Entity

Category

Options for Automatic Processes

Scope

Start when:

☐ Record is created

☐ Record status changes

☐ Record is assigned

☒ Record fields change [Select](#)

☐ Record is deleted

Add Step * [Insert](#) [Delete this step](#)

Type a step description here.

If Book-Bilal[Check Out equals [Yes]], then:

Admin Task will match Planned checkout date

Create: [Set Properties](#)

Status: Draft

Task 7:

The screenshot displays the Microsoft Dynamics 365 Power Apps Process Designer interface for a process named 'CheckIn/Checkout Process Flow Bilal'. The process is currently 'Inactive'.

The process flow consists of three steps:

- Step 1:** Book-Bilal CheckOut (Data Step #1: CheckOutDateStep)
- Step 2:** Condition CheckOut To CheckIn condition (Condition Step)
- Step 3:** Book-Bilal CheckIn (Data Step #3: PlannedCheckInDateStep)

The 'Condition' step is currently selected, and its properties are shown on the right-hand pane:

- Stage:** CheckOut
- Category:** Identify
- Entity:** Book-Bilal
- Business Rules:** Business rules for this stage's entity

The 'Condition' step's properties are also shown on the right-hand pane:

- Condition:** CheckOut To CheckIn condition
- Rules:** + New
- Field:** Check Out
- Operator:** Equals
- Type:** Value
- Value:** Yes (checked), No
- Condition Expression (Text View):** ((Check Out Equals (Yes)))

The status bar at the bottom indicates the process is 'Inactive'.

Meet - miz-0aaa-mpa | Process: CheckIn/Checkout Pro... | Power Apps | Solutions - BIAI | Process: AdminWorkflowBial... | You are sharing your entire screen. Stop Sharing

CheckIn/Checkout Process Flow Bial

Save Validate Save As Activate Order Process Flow Edit Security Roles Help

Add Cut Copy Paste Delete Snapshot Connector

Book-Bial CheckOut Condition CheckOut To CheckIn condition Book-Bial CheckIn

Step (2)

- Data Step #1 CheckInStatus
- Data Step #2 PlannedCheckInDate
- Triggered Process (0)

Global Workflow (0)

Status: Inactive

Components Properties

Data Step

Step Name: PlannedCheckInDate

Data Field: Planned Check In Date

☐ Required

Sequence: 2

Apply Discard

Meet - miz-0aaa-mpa | Process: CheckIn/Checkout Pro... | Power Apps | Solutions - BIAI | Process: AdminWorkflowBial... | You are sharing your entire screen. Stop Sharing

CheckIn/Checkout Process Flow Bial

Save validation successful. Process may need further validations for activation. Save Validate Save As Activate Order Process Flow Edit Security Roles Help

Add Cut Copy Paste Delete Snapshot Connector

Book-Bial CheckOut Condition CheckOut To CheckIn condition Book-Bial CheckIn

Global Workflow (0)

Status: Inactive

Components Properties

Condition

Display Name: CheckOut To CheckIn condition

Rules

Field: Check Out

Operator: Equals

Type: Value

Value: ☒ Yes ☐ No

Condition Expression (Text View): (Check Out Equals (Yes))

Apply Discard

Task 8: Security Roles. Librarian and Supervisor Screenshot

The screenshot shows the Power Apps 'Create New Role' dialog. The role name is 'Librarian-Bilal'. The business unit is 'Business unit'. The role is assigned to a team, and the member's privilege inheritance is set to 'Direct User (Basic) access level and Team privileges'. The 'Include App Opener privileges for running Model-Driven apps' checkbox is checked.

Display name	Name	Type	Managed
AdminWorkflowBilal	AdminWorkflow...	Process (Workflo...	No
Book-Bilal	cr208_book	Table	No
CheckIn/Checkout Process ...	CheckIn/Checkou...	Process (Business...	No
Contact	contact	Table	Yes
EmailWorkflowBilal	EmailWorkflowBil...	Process (Workflo...	No
Library Management Syste...	cr208_LibraryMa...	Site Map	No
Library Management Syste...	cr208_LibraryMa...	Model-Driven App	No

The screenshot shows the Power Apps 'Create New Role' dialog. The role name is 'Librarian-Bilal'. The business unit is 'orgb27591a4'. The role is assigned to a team, and the member's privilege inheritance is set to 'Team privileges only'. The 'Include App Opener privileges for running Model-Driven apps' checkbox is checked.

Display name	Name	Type	Managed
AdminWorkflowBilal	AdminWorkflow...	Process (Workflo...	No
Book-Bilal	cr208_book	Table	No
CheckIn/Checkout Process ...	CheckIn/Checkou...	Process (Business...	No
Contact	contact	Table	Yes
EmailWorkflowBilal	EmailWorkflowBil...	Process (Workflo...	No
Library Management Syste...	cr208_LibraryMa...	Site Map	No
Library Management Syste...	cr208_LibraryMa...	Model-Driven App	No

Meet - msz-osaa-mpa
Power Apps
Process: AdminWorkflowBilal

https://make.powerapps.com/e/245e4596-f2d5-e4f9-b77c-7b89928f889e/s/e51d8cc7-fbb9-ef11-a72f-0022485617cb/securityrole...

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Power Apps Search You are sharing your entire screen. Stop Sharing Environment Isaiah Langer's Environ...

Back Copy security role Rename security role Save Configure column view

New Role Librarian-Bilal successfully created

Privileges are updated!

Privileges are updated!

Privileges are updated!

Security Role: Librarian-Bilal

Book-Bilal

Details

Tables Miscellaneous privileges Privacy-related privileges

Show all tables

Compact Grid View On

Table 1

Name

Record owner...

Permission ...

Create

Read

Write

Delete

Append

Append to

Custom Tables (1)

Book-Bilal

...

cr208_book

User or Team

Custom

None

Business Unit

Business Unit

None

Business Unit

Business Unit

Meet - msz-osaa-mpa
Power Apps
Process: AdminWorkflowBilal

https://make.powerapps.com/e/245e4596-f2d5-e4f9-b77c-7b89928f889e/s/e51d8cc7-fbb9-ef11-a72f-0022485617cb/securityrole...

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Power Apps Search You are sharing your entire screen. Stop Sharing Environment Isaiah Langer's Environ...

Back Copy security role Rename security role Save Configure column view

New Role Librarian-Bilal successfully created

Privileges are updated!

Privileges are updated!

Privileges are updated!

Security Role: Librarian-Bilal

Book-Bilal

Details

Tables Miscellaneous privileges Privacy-related privileges

Show all tables

Compact Grid View On

Name

Record owner...

Permission ...

Create

Read

Write

Delete

Append

Append to

Assign

Share

...

cr208_book

User or Team

Custom

None

Business Unit

Business Unit

None

Business Unit

Business Unit

Business Unit

None

Meet - miz-0aaa-mipa

Power Apps

Process: AdminWorkflowBilal

+

https://make.powerapps.com/e/245e4596-f2d5-e4f9-b77c-7b89928f889e/s/e51d8cc7-flbb9-ef11-a72f-0022485617cb/securityRoles/

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Search

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Environment: Isaiah Langer's Environ...

?

IL

Back

Copy security role

Rename security role

Save

Configure column view

Privileges are updated!

Security Role: Librarian-Bilal

contact

Details

Tables

Miscellaneous privileges

Privacy-related privileges

Show all tables

Compact Grid View

On

Table

Name

Record owner...

Permission ...

Create

Read

Write

Delete

Append

Append to

Core Records (1)

...

contact

User or Team

Custom

None

Business Unit

None

None

None

None

Meet - miz-0aaa-mipa

Power Apps

Process: AdminWorkflowBilal

+

https://make.powerapps.com/e/245e4596-f2d5-e4f9-b77c-7b89928f889e/s/e51d8cc7-flbb9-ef11-a72f-0022485617cb/securityRoles/

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Other Bookmarks

Power Apps

Search

You are sharing your entire screen.

Stop Sharing

Environment: Isaiah Langer's Environ...

?

IL

Back

Copy security role

Rename security role

Save

Configure column view

Privileges are updated!

Security Role: Librarian-Bilal

contact

Details

Tables

Miscellaneous privileges

Privacy-related privileges

Show all tables

Compact Grid View

On

Name

Record owner...

Permission ...

Create

Read

Write

Delete

Append

Append to

Assign

Share

...

contact

User or Team

Custom

None

Business Unit

None

None

None

None

None

None

Task 9 (Report Screenshot):

The screenshot shows the 'Report: New Report' dialog box in Microsoft Dynamics CRM. The dialog is titled 'Get Started' and contains the following sections:

- Source:** Report Type is set to 'Report Wizard Report'. A button 'Report Wizard' is visible.
- Details:** Fields for Name and Description are present.
- Parent Report:** A field for Parent Report is present.
- Categorization:** Fields for Categories, Related Record Types, Display In (set to 'Reports area'), and Languages (set to 'English') are present.

The 'Select the starting point for your report' section has two radio buttons: 'Start a new report' (selected) and 'Start from an existing report'. Below these is a text input field and a checkbox for 'Overwrite existing report'.

At the bottom are 'Back', 'Next', and 'Cancel' buttons. The 'Next' button is highlighted with a dashed box.

Status: New

The screenshot shows the 'Report: OverdueBooksBilal' dialog box in Microsoft Dynamics CRM. The dialog is titled 'Report Properties' and contains the following sections:

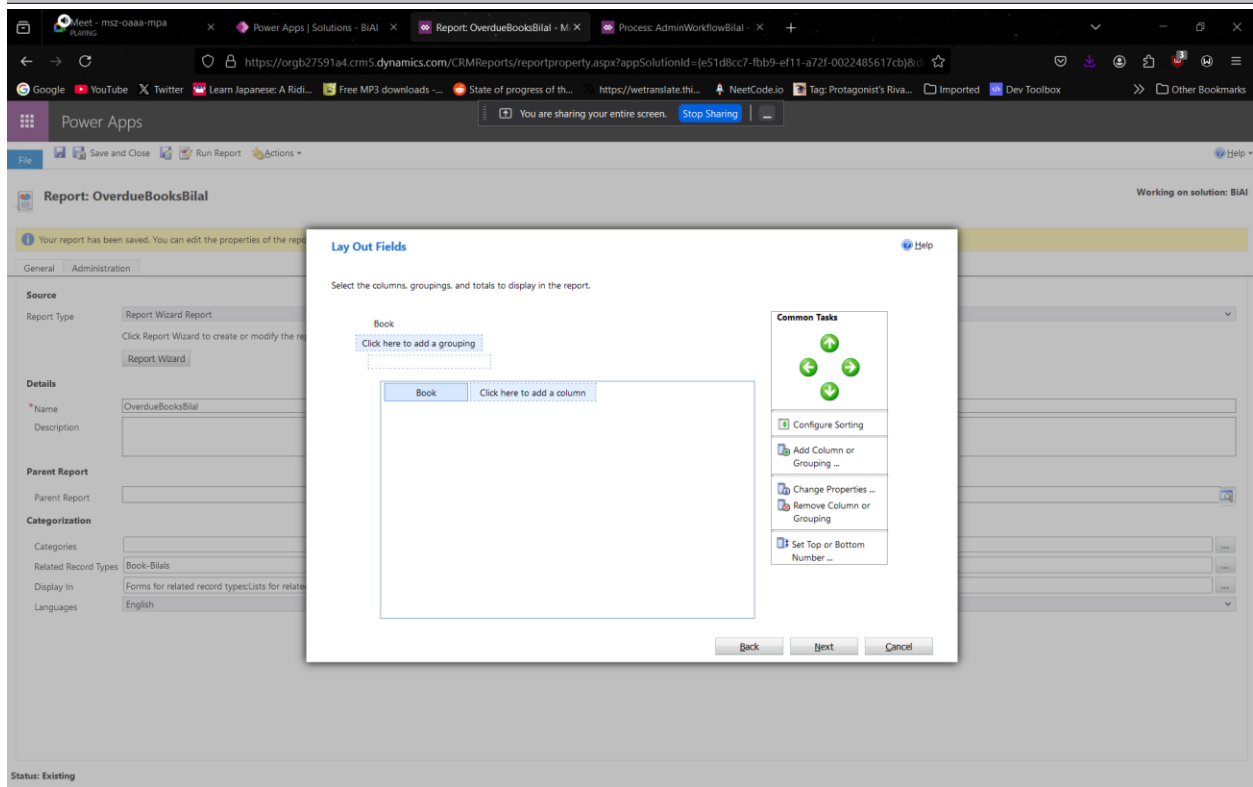
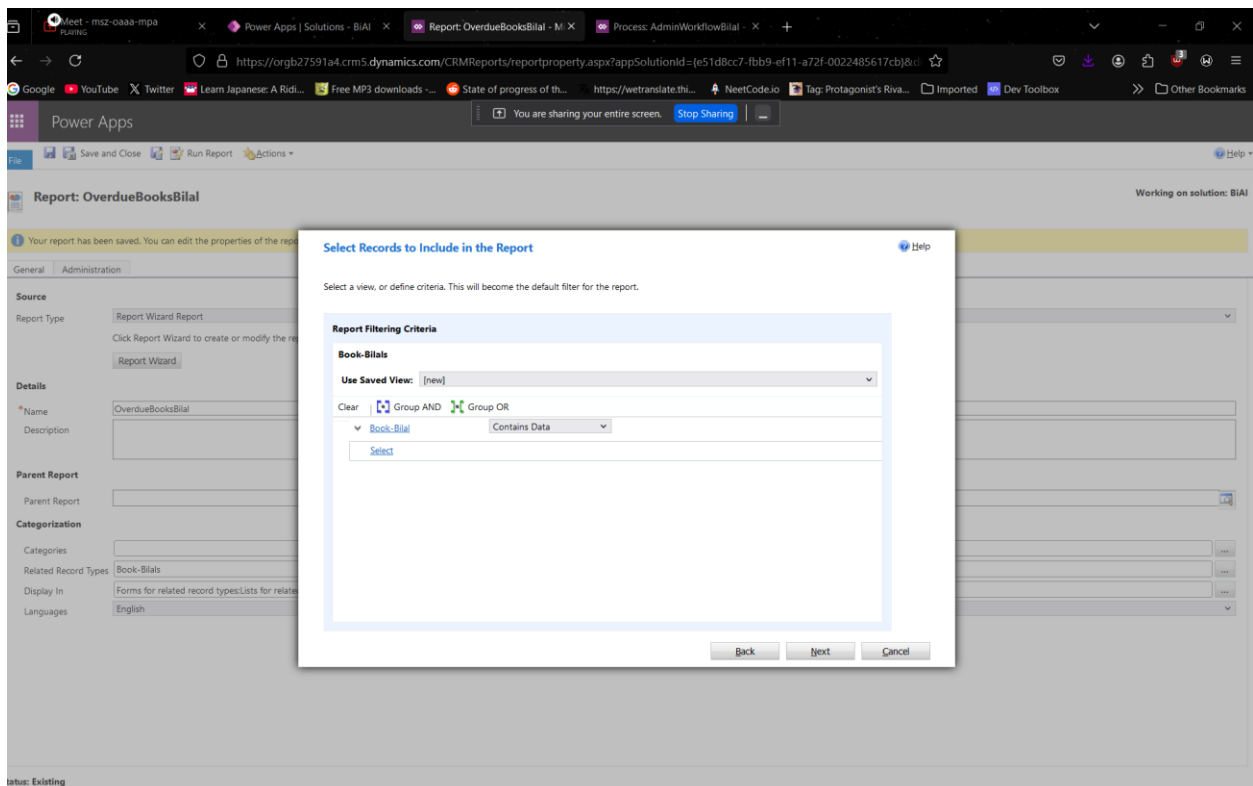
- Source:** Report Type is set to 'Report Wizard Report'. A button 'Report Wizard' is visible.
- Details:** Fields for Name (set to 'OverdueBooksBilal') and Description are present.
- Parent Report:** A field for Parent Report is present.
- Categorization:** Fields for Categories, Related Record Types (set to 'Book-Bilals'), Display In (set to 'Forms for related record types:Lists for related'), and Languages (set to 'English') are present.

The 'Specify the name and description of the report' section has two text input fields: 'Report name' (set to 'OverdueBooksBilal') and 'Report description'.

The 'Specify the record types to include in this report' section has two dropdown menus: 'Primary record type' (set to 'Book-Bilals') and 'Related record type'.

At the bottom are 'Back', 'Next', and 'Cancel' buttons.

Status: Existing



https://orgb27591a4.crm5.dynamics.com/CRMReports/reportproperty.aspx?appSolutionId={e51d8cc7-fbb9-ef11-a72f-0022485617cb}&d

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Report Viewer: OverDue Bilal — Mozilla Firefox

https://orgb27591a4.crm5.dynamics.com/crmreports/viewer/viewer.aspx?id={97B21FAC-20BA-EF11-A72F-0022485617CB}

FileHelp

Edit Filter

1 of 1

100%

OverDue Bilal

Filter Summary

Book	Book	Full Name (Check Out Contact)
Dante's Inferno		
	Dante's Inferno	Jim Glynn (sample)
The Way of Kings		
	The Way of Kings	Nancy Anderson (sample)

Task 10 (Planned Check In date screenshot):

Power Apps

Click to add description

Components Properties

Set Field Value

Display Name: 10Day

Entity: Book-Bilal

Field Value

Planned Check In Date

Formula

Check Out Date

+

Value

Days: 10

Apply Discard

Business Rule (Text View)

IF

THEN

Set < > to ""

Draft

Power Apps

Click to add description

Components Properties

Condition

Display Name: New Condition

Entity: Book-Bilal

Rules

Source: Entity

Field: Check Out Date

Operator: Contains data

Condition Expression (Text View)

(Check Out Date Contains data)

Apply Discard

Business Rule (Text View)

IF

THEN

Check Out Date contains data

Set Planned Check In Date to Check Out Date + "10" days

Draft

Meet - miz-0aaa-mpa
PLAYING

Power Apps | Solutions - BIAJ | X

Business Rule - New Rule - Mic | X

Report: OverdueBooksBilal - M | X

Process: AdminWorkflowBilal - X

https://orgb27591a4.crm5.dynamics.com/tools/systemcustomization/businessrules/businessRulesDesigner.aspx?BRLaunchpoint=BRGrids

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Power Apps

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Click to add description

+

Add

X

Cut

Copy

Paste

Delete

Snapshot

Condition
New Condition

Set Field Value
10Day

Business Rule (Text View)

IF

Check Out Date contains data

THEN

Set Planned Check In Date to Check Out Date + "10" days

Components

Properties

Set Field Value

Display Name
10Day

Entity
Book-Bilal

Field Value
Planned Check In Date
Formula
Check Out Date
+
Value
Days
10

Enter the number of days to add.

Apply Discard

Draft

Task 11:

The screenshot shows the Power Apps Business Rule Designer interface. The rule is titled "Book-Bilal: CheckOutDateValidationBilal". The rule logic is as follows:

- Condition:** CheckOutVal
- Then:** Show Error Message CheckoutDateErrorBilal

The "Show Error Message" component is configured with the following properties:

- Display Name:** CheckoutDateErrorBilal
- Entity:** Book-Bilal
- Error Message:** Check Out Date
- Error Message Text:** CheckoutDate cannot be before the book was created

The "Business Rule (Text View)" pane shows the following logic:

```
IF
  Check Out Date less than Created On - "1" days
THEN
  Show the error message "CheckoutDate cannot be before the book was created" against field Check Out Date
```

The screenshot shows the same Power Apps Business Rule Designer interface, but with the "Condition Expression (Text View)" pane expanded. The rule logic is as follows:

- Condition:** CheckOutVal
- Then:** Show Error Message CheckoutDateErrorBilal

The "Show Error Message" component is configured with the following properties:

- Entity:** Book-Bilal
- Field:** Check Out Date
- Operator:** Is less than
- Type:** Formula
- Field:** Created On
- Operator:** -
- Type:** Value
- Days:** 1

The "Condition Expression (Text View)" pane shows the following logic:

```
IF
  Check Out Date less than Created On - "1" days
THEN
  Show the error message "CheckoutDate cannot be before the book was created" against field Check Out Date
```