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Topic 6 - Testlet 2

Introductory Info

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Background -

Overview -

Contoso, Ltd. produces industrial furnaces. The company is struggling to meet increased demand in production orders.

The company has corporate offices and manufacturing plants in Germany. The company also has offices and manufacturing plants in other regions of the world.

The company purchases a plant from another company. The plant has been in operation for over 25 years.

Current environment -

Accounting system and purchasing

Operations for the company are managed very informally. Only a small number of long-term employees are aware of all manufacturing processes.

Manufacturing and planning -

The company has a cloud-based ERP/accounting system and uses the General Ledger, Accounts Receivable, and Accounts Payable modules. The current system does not have any modules that handle shop floor or manufacturing planning functionality.

Employee information is maintained only within the accounting system. Access to the information is strictly controlled due to privacy regulations and company policies.

All purchasing of raw materials is performed based on bills of material (BOMs) generated by the engineering department when engineering prints are created.

The corporate office uses Dynamics 365 Finance. The operations manager reports that Dynamics 365 Finance will not be implemented for the manufacturing plants for at least five years.

Sales -

The plant that Contoso, Ltd. acquires uses Microsoft Excel workbooks and Microsoft Word documents to track the sales pipeline, requests for quote responses, and work estimates. The documents are stored on shared network drives.

Printed engineering drawings are sometimes accidentally used across orders. This results in rework, cost over runs, and missed deliveries.

The company uses Job Traveler documents to detail the operations that need to be performed and the materials needed for a given job number.

Requirements -

Solution -

Requests for quotes are currently stored in a Sales Log workbook. The workbook includes the following information:

- Customer request number
- Customer name
- Description
- Estimated value of the sale
- Status of the Request for Quote (RFQ) with the values of Won, Lost, No Bid, and Cancelled
- Names of the sales manager, salesperson, and estimator
- Name of the product line
- Date the quote was sent to the customer

- Approximate start and finish dates of the project
- Date the order was received, if won
- Job number, which is assigned if won

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Setting up a folder system on the network drive by a customer had not improved the hand-off of the current version of the sales quote to manufacturing.

General -

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You must convert the Sales Log workbook to a Common Data Service database.

Each department will have a separate Teams channel. Employees must only be able to access the channel for their department. All employees and management will have read access to a general company channel. The Teams site must include the following channels:

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Manufacturing -

A dashboard that shows a capacity Heat map by month as well as expected sales that are likely to close for the next month.

A sortable listing of all in-process jobs from the Job Setup table, by customer, start date, and product.

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You must create the following apps:

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The app must store its data in the existing on-premises Microsoft SQL Server instance.

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Users report that the customer request number is difficult to interpret. They request that you change the number to a system generated sequential number.

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Question

You need to modify the entity form to resolve the customer request number issue.

What should you do?

- A. Use a calculated field
- B. Change the data type of the customer request number field to Lookup
- C. Change the data type of the customer request number field to Autonumber

Correct Answer: C

Scenario: Users report that the customer request number is difficult to interpret. They request that you change the number to a system generated sequential number.

Autonumber columns are columns that automatically generate alphanumeric strings whenever they are created.

Incorrect Answers:

B: The LookUp function finds the first record in a table that satisfies a formula.

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/data-platform/autonumber-fields>

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Question

HOTSPOT -

You need to implement features for the solution.

Which Power Platform component should you use for each feature? To answer, select the appropriate options in the answer area.

NOTE: Each correct selection is worth one point.

Hot Area:

Answer Area

Feature	Component
Mobile app for Sales Log workbook	<input type="checkbox"/> Canvas app <input type="checkbox"/> Model-driven app <input type="checkbox"/> Power Virtual Agents chatbot
Embed KPIs for sales quotas by region	<input type="checkbox"/> Content Pack <input type="checkbox"/> Power BI Desktop <input type="checkbox"/> Power BI service
Transfer of key sales information to the Job Setup entity	<input type="checkbox"/> Power Automate <input type="checkbox"/> Business process flow <input type="checkbox"/> Power Virtual Agents

Answer Area

Feature	Component			
Mobile app for Sales Log workbook	<table border="1"><tr><td>Canvas app</td></tr><tr><td>Model-driven app</td></tr><tr><td>Power Virtual Agents chatbot</td></tr></table>	Canvas app	Model-driven app	Power Virtual Agents chatbot
Canvas app				
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Correct Answer: Embed KPIs for sales quotas by region	<table border="1"><tr><td>Content Pack</td></tr><tr><td>Power BI Desktop</td></tr><tr><td>Power BI service</td></tr></table>	Content Pack	Power BI Desktop	Power BI service
Content Pack				
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Power Automate				
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Box 1: Model-driven app -

The Sales app must meet the following requirements:

- ⇒ Provide a central location for all sales pipeline and quote information that is easily accessible and maintains all of the versions of the estimate, quote, and engineering documents.

Compared to canvas apps, model-driven apps in PowerApps are based on underlying data – specifically, the data stored in Common Data Service (CDS).

Box 2: Power BI Desktop -

You can create a KPI in Power BI Desktop.

1. Open your report editor in Power BI Desktop then select a report on which you are working.
2. On your right, you will see a Visualizations pane and a Fields pane.
3. From the Visualizations pane, select the KPI visual.
4. Etc.

Box 3: Power Automate

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Question

You need to connect to the data source for the Job Setup app.

What should you do?

- A. Configure a scheduled synchronization with the Common Data Service database
- B. Configure SQL Server database permissions
- C. Create a stored procedure that retrieves time records for a specific employee
- D. Configure an on-premises data gateway

Correct Answer: D

Scenario: The Job Setup entity must store its data in the existing on-premises SQL Server instance.

The on-premises data gateway acts as a bridge to provide quick and secure data transfer between on-premises data (data that isn't in the cloud) and several

Microsoft cloud services. These cloud services include Power BI, Power Apps, Power Automate, Azure Analysis Services, and Azure Logic Apps. By using a gateway, organizations can keep databases and other data sources on their on-premises networks, yet securely use that on-premises data in cloud services.

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/gateway-reference>

Create solutions

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Printed paper drawings must no longer be used. The drawings must be stored in folders in the files location for the manufacturing channel.

You must create the following apps:

Time Tracking -

You must create a canvas app to track time for each employee on mobile devices. The app must include the following:

a Sign-in screen

a screen to list the week's time entries for the employee

a screen to edit current time entries for the employee

The app must meet the following requirements:

The app must store its data in the existing on-premises Microsoft SQL Server instance.

Employees must only be able to access their own time tracking records from the app.

Employees must record all time spent in the fabrication of each customer job.

Employees must only be able to modify time records for the current and previous day.

Employees must be able to scan their badges to check in and out of work. Each badge contains the employee name and a current picture.

A QR code must be added to all employee badges. The code must include the employee's number.

Job Traveler documents must be printed as PDF documents and must include UPC E barcodes for the job number and task number. The barcodes will be used with the time tracking application.

Sales -

The Sales app must meet the following requirements:

Provide a central location for all sales pipeline and quote information that is easily accessible and maintains all of the versions of the estimate, quote, and engineering documents.

Include a dashboard that shows all currently active quotes, their status in the sales cycle, the probability of closing, and estimated manufacturing and

- installation dates, by customer, product division, status, and salesperson.

The Sales Log app must enforce process standards related to the completion of estimates and supporting materials needed during the sales lifecycle.

Automatically perform the following actions immediately when a sale is won:

- Generate a sequential job number.

- Copy key sales information to the Job Setup entity used by manufacturing.

If the sale is lost, the Status field must be set to Lost and the reason for the loss must be entered into a provided text field. The reason must be

added to the end of the description field.

Ensure that employees can easily update the Sales Log even if they are at a customer site.

Manufacturing and planning -

The app must meet the following requirements:

Provides features to plan and predict capacity resource requirements for current and upcoming orders in the pipeline.

Replace paper timesheets and track check-in, check-out, breaks, and the time spent on each job task.

Record time elapsed while performing work and for viewing of engineering drawings.

The Job Setup entity must store its data in the existing on-premises SQL Server instance.

Job Traveler documents must be generated as a PDF document and printed from the Job Setup entity.

Issues -

Users report that the customer request number is difficult to interpret. They request that you change the number to a system generated sequential number.

The operations manager reports that users often incorrectly sign in to the time tracking app. The operations manager asks that the time tracking app display the employee's photo once they have scanned their badge.

Users want to be able to see their weekly total time entered from all screens.

Testers report that they can see time entries in the Time Tracker app, not just their own. Additionally, they can also edit any existing time entries.

Question

You need to implement the change requested by the operations manager.

Which control should you use?

- A. Camera
- B. Shape
- C. Add picture
- D. Image

Correct Answer: D

Scenario: The operations manager asks that the time tracking app display the employee's photo once they have scanned their badge.

Image control in Power Apps is a control that shows an image from, for example, a local file or a data source.

Incorrect Answers:

C: Add Picture: With this control users can take photos or upload image files from their device and update the data source with this content. On a mobile device the user is presented with the device's choice dialog to choose between taking a photo or selecting one already available.

This control is a grouped control containing two controls: an Image and an Add picture button. The Image control shows the uploaded image or a placeholder if no image has been uploaded. The Add picture button prompts for an image to be uploaded.

Not: If you add one or more Image controls to your app, you can show individual images that aren't part of a data set, or you can incorporate images from records in data sources.

Reference:

<https://docs.microsoft.com/en-us/powerapps/maker/canvas-apps/controls/control-image>

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