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19 September 2020

BC SaaS – How to Upload / Download Files?

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Participation

	Sum of Registered	Sum of Attended	Sum of Questions

	27-Jun	04-Jul	11-Jul	18-Jul	25-Jul	01-Aug	08-Aug	15-Aug	22-Aug	29-Aug	05-Sep	12-Sep	19-Sep
	Jun	Jul				Aug					Sep		
Sum of Registered	10	18	17	14	19	15	15	13	18	14	19	16	23
Sum of Attended	3	5	7	9	10	9	12	5	8	7	9	8	
Sum of Questions	1	2	4	6	8	7	5	5	6	6	3	5	

Months ▾ Date ▾ + −

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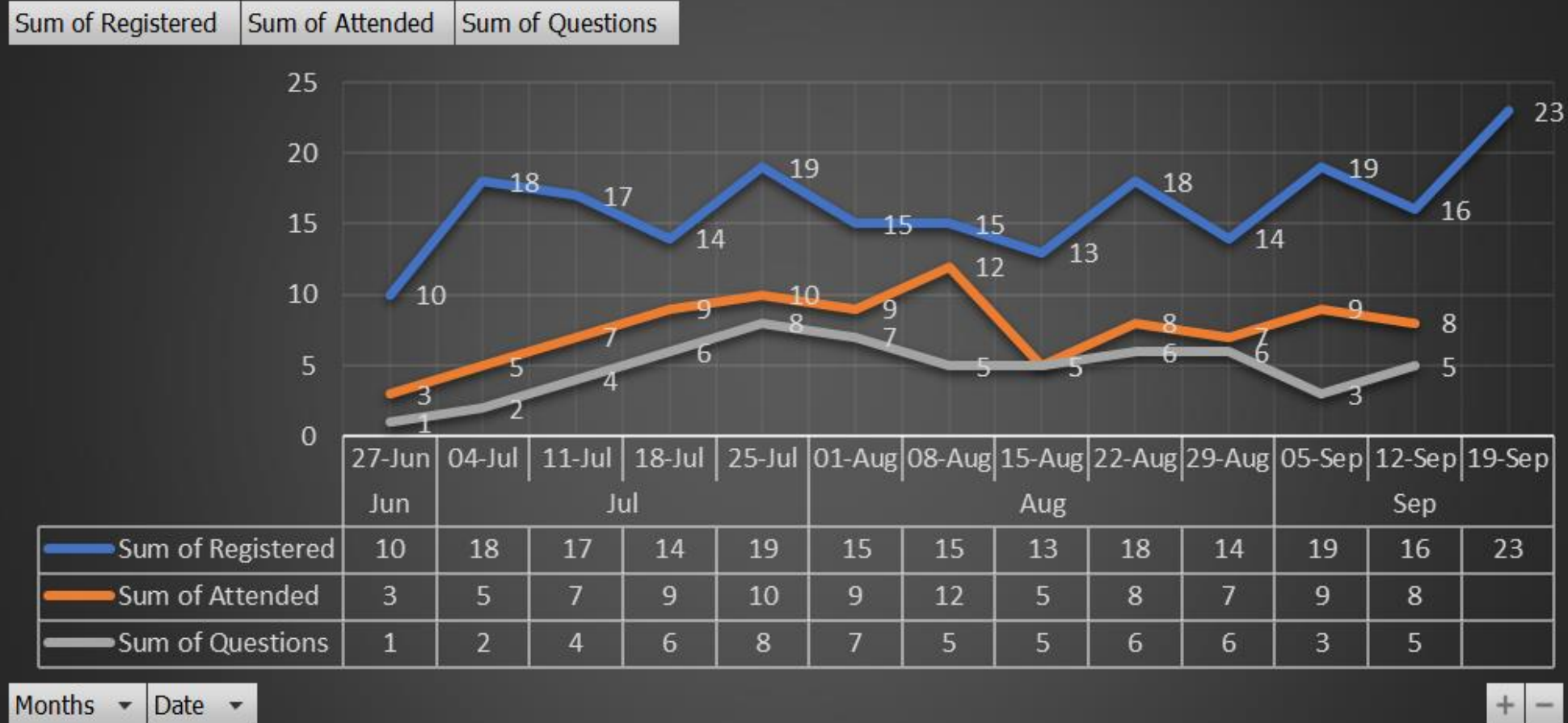
Where Do I Register?

- Register Here – https://bit.ly/bcopendiscussion

Why?

- File Management –
  - Mostly OnPrem.
  - IsLocalFileSystemAccessible.

```
[Scope('OnPrem')]   ←
procedure ServerTempFileName(FileExtension: Text) FileName: Text
var
    TempFile: File;
begin
    TempFile.CreateTempFile;
    FileName := CreateFileNameWithExtension(TempFile.Name, FileExtension);
    TempFile.Close;
end;


[Scope('OnPrem')]
procedure ClientTempFileName(FileExtension: Text) ClientFileName: Text
var
    TempFile: File;
    ClientTempPath: Text;
begin
    if not IsLocalFileSystemAccessible then
        Error(LocalFileSystemNotAccessibleErr);
```

```
procedure IsLocalFileSystemAccessible(): Boolean
var
    ClientTypeManagement: Codeunit "Client Type Management";
begin
    exit(ClientTypeManagement.GetCurrentClientType = CLIENTTYPE::Windows);
end;
```

Why Streams?

- Business Central (Web Client) doesn't allow you to access files on the server or the client side directly.

- File data types have the following AL methods:
  - Erase
  - Rename
  - Copy
  - GetStamp and SetStamp
  - Exists
  - Upload and Download
  - IsPathTemporary

- **UploadIntoStream and DownloadFromStream**

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Temp Blob?

- A binary large object (BLOB) is a complex data type.
- The maximum size of a BLOB object is 2 gigabytes. You can use BLOBs to store memos (text), pictures (bitmaps), or user-defined types.

- You can read from and write to BLOBs by creating input and output streams, respectively. To do so, use the **CreateInStream** method (BLOB) and the **CreateOutStream** method (BLOB) to read and write to BLOBs.

- Use Temp Blob codeunit (4100).
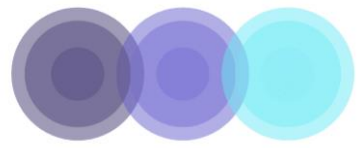
InStream & Outstream.

- The **InStream** data type can be used to read bytes from a stream object. The data is read in binary format, and you can use the **Read** and **ReadText** functions to read that format.

- The **OutStream** data type can be used to write bytes to a stream object. The data is written in binary format, and you can use the **Write** and **WriteText** functions to write to that format.

References.

Clone repo - https://github.com/postsaurav/alsamples.git
Link - https://github.com/postsaurav/alsamples

- **DownloadFromStream**

https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/methods-auto/file/file-downloadfromstream-method

- **UploadIntoStream**

https://docs.microsoft.com/en-us/dynamics365/business-central/dev-itpro/developer/methods-auto/file/file-uploadintostream-method

- **Introduction to the basics of file management in Dynamics 365 Business Central**
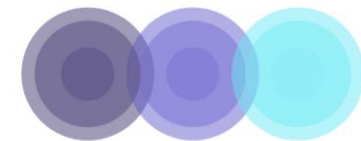https://docs.microsoft.com/en-us/learn/modules/introduction-basics-file-management/

Next Week Topic?

- Vote Here - http://etc.ch/wMHR

THANK YOU!

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