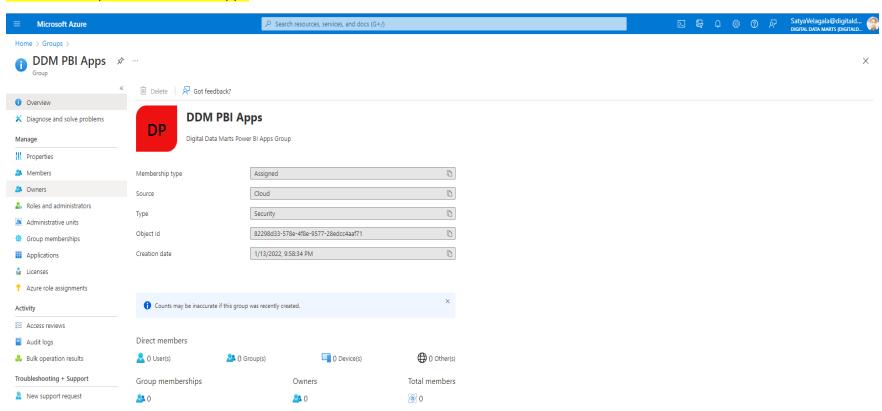
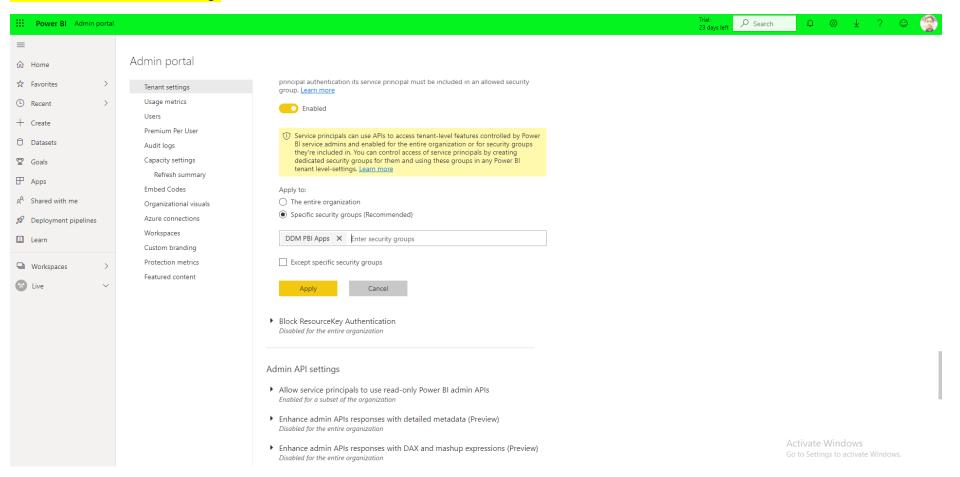
Power BI Automation

Tenant : Digital Data Marts

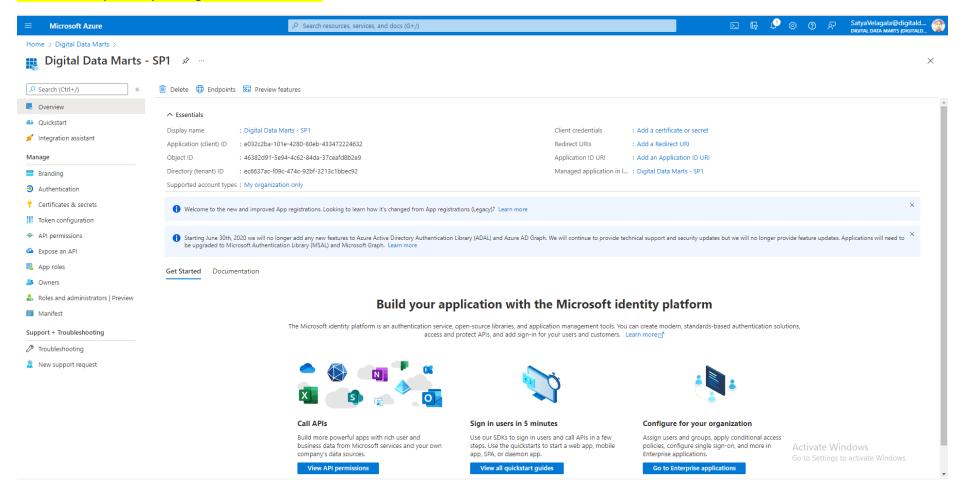
1.Create Group called DDM PBI Apps



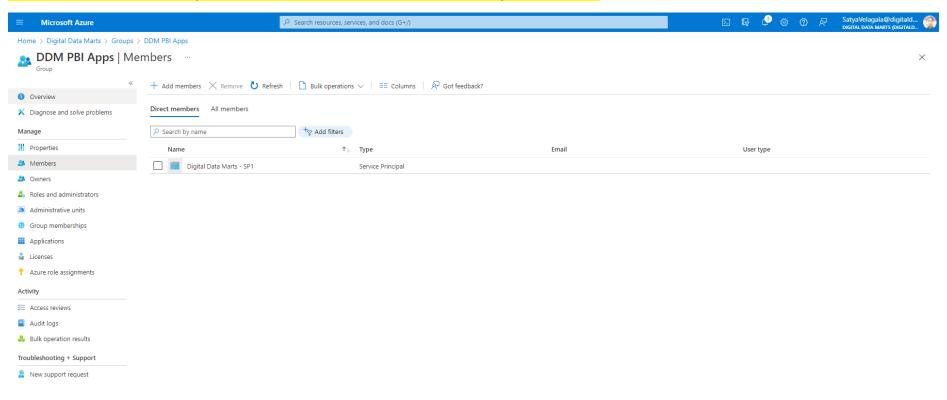
2. Power BI Admin Portal – Settings



3. Service Pricipal Setup : Digital Datamarts – SP1



4. Add the SPN to the Group (One that has been created in Previous Step) as Member



Azure Function Code

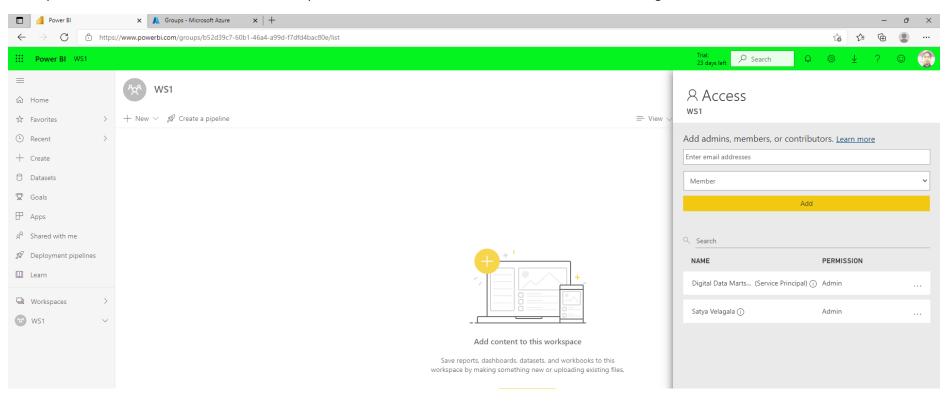
public static class CreateWorkSpaceAF

```
[FunctionName("CreateWorkSpaceAF")]
public static async Task<IActionResult> Run(
  [HttpTrigger(AuthorizationLevel.Function, "get", "post", Route = null)] HttpRequest req,
  ILogger log)
  log.LogInformation("HTTP triggered function processed a request for CreateWorkSpaceAF.");
  string name = req.Query["name"];
  string requestBody = await new StreamReader(req.Body).ReadToEndAsync();
  dynamic data = JsonConvert.DeserializeObject(requestBody);
  name = name ?? data?.name;
  string responseMessage = string.lsNullOrEmpty(name)
    ? "Pass a workspace name (name) in the query string to create a new workspace.\n"
    : $"Workspace with name = {name} is getting created.\n";
```

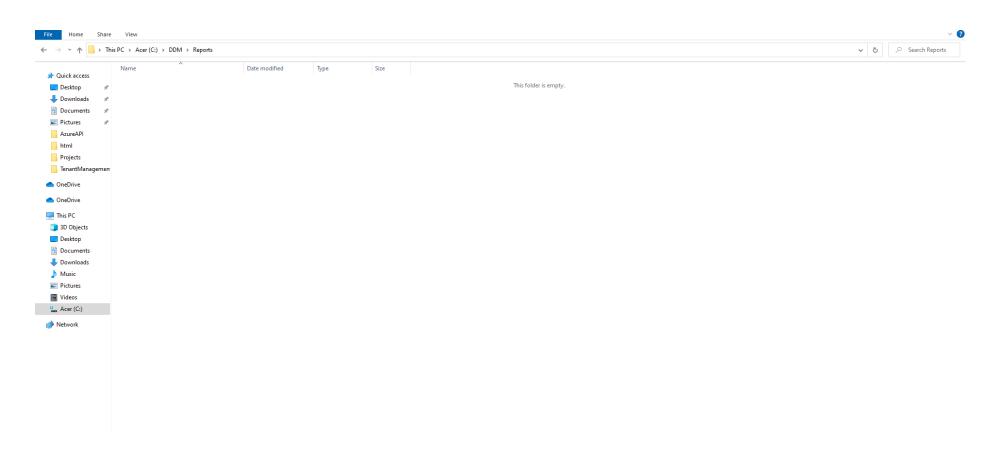
```
PowerBiAppIdentity objAppIdentity = new PowerBiAppIdentity();
objAppIdentity.TenantId ="ec6637ac-f09c-474c-92bf-3213c1bbec92";
objAppIdentity.ApplicationId ="e032c2ba-101e-4280-80eb-433472224632";
objAppIdentity.ClientSecret ="2&27Q~NDwI.iZPGAYmKakOybDS48pX_IYTugT";
PowerBiServiceApi objservice = new PowerBiServiceApi();
PowerBIClient PbiClientDetails = objservice.GetPowerBiClient(objAppIdentity);
var ClientWSes = await objservice. GetTenantWorkspacesAsync(PbiClientDetails);
foreach (Group ws in ClientWSes) {
    //Console.WriteLine($"ws name = {ws.Name}");
    if(!string.IsNullOrEmpty(ws.Name)){
     if (ws.Name.ToLower().Equals(name.ToLower())) {
      responseMessage = responseMessage + $"The Workspace is already created with this name, created workspace guid is : {ws.ld}";
      return new OkObjectResult(responseMessage);
```

```
Group workSpace =null;
string workspaceName = name;
PowerBiTenantDetails tenantDetails = new PowerBiTenantDetails();
workSpace = objservice.CreateAndGetNewWorkSpace(objAppIdentity,workspaceName);
responseMessage = responseMessage + $"The Newly created workspace guid is : {workSpace.Id}";
return new OkObjectResult(responseMessage);
```

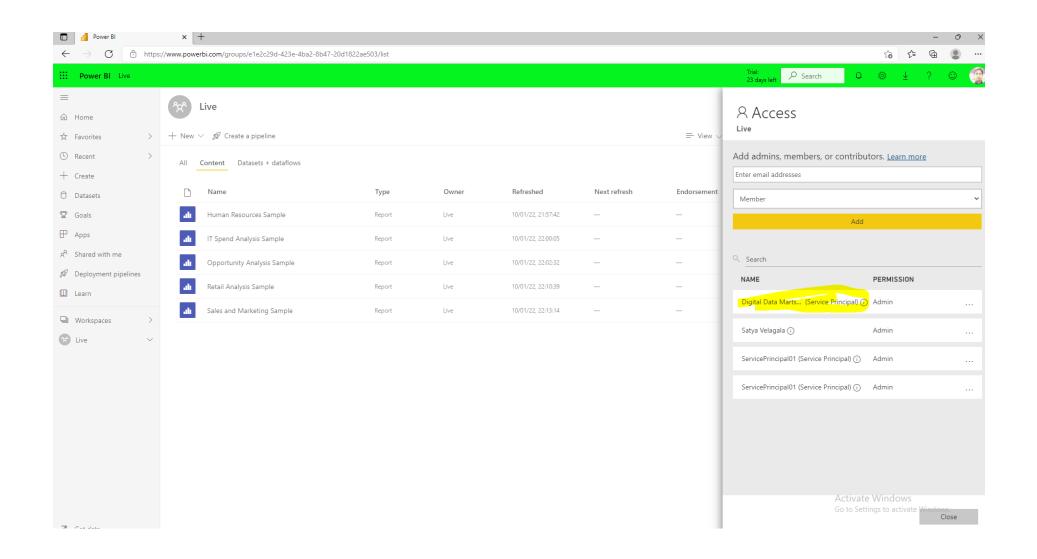
Workspace has been Created and I can see Workspace as below and also check access on WS1 located on right of the screen shot

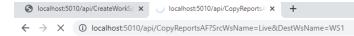


2. Copy Reports from Live To New Workspace WS1: The process usually download the Reports from Live workspace and put it into storage area and then publish them back into New Workspace. There is no reports in staging area now



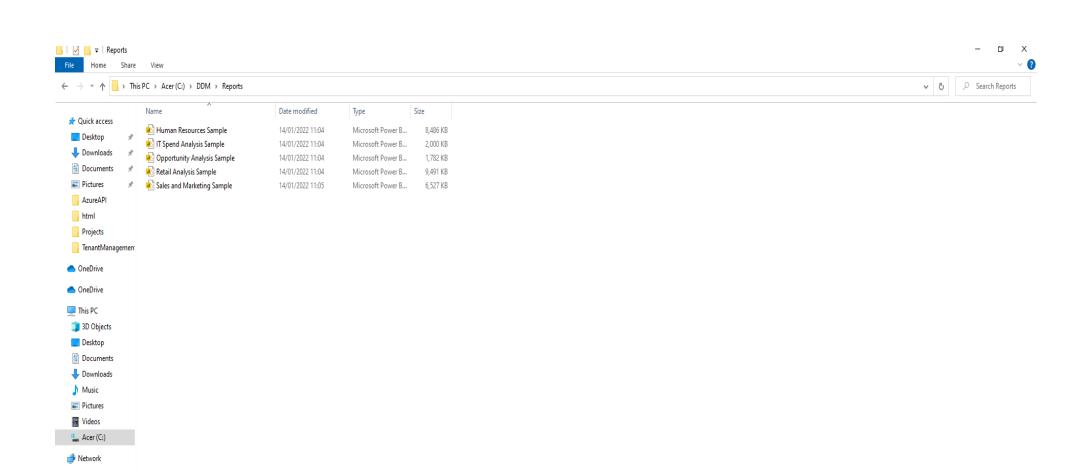
Give Live Workspace Access for Service Principal Service Principal need to have access on Live Workspace in order to pull the reports on staging area and then copy them back to Newly created workspace (WS1)



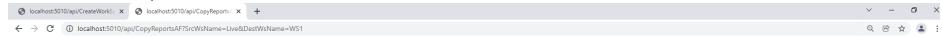


Received Source Workspace Id = sLive.
Received Destination Workspace Id = WS1.
Source Workspace not found with the given Workspace name = Live.

Staging Now got Reports downloaded as below

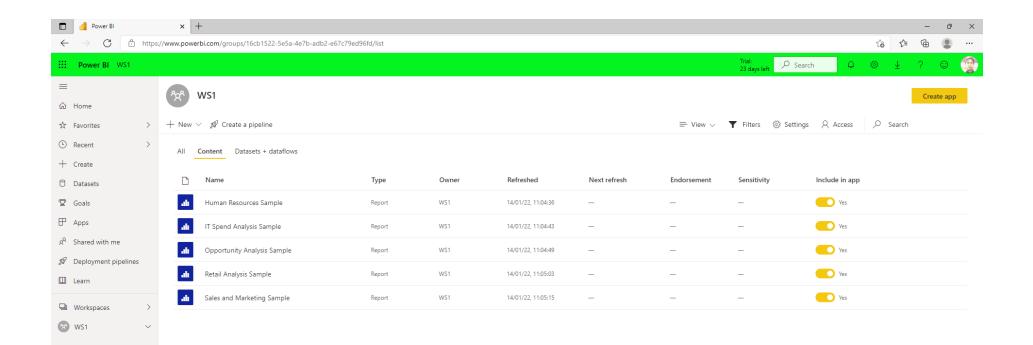


Azure Function has completed the run

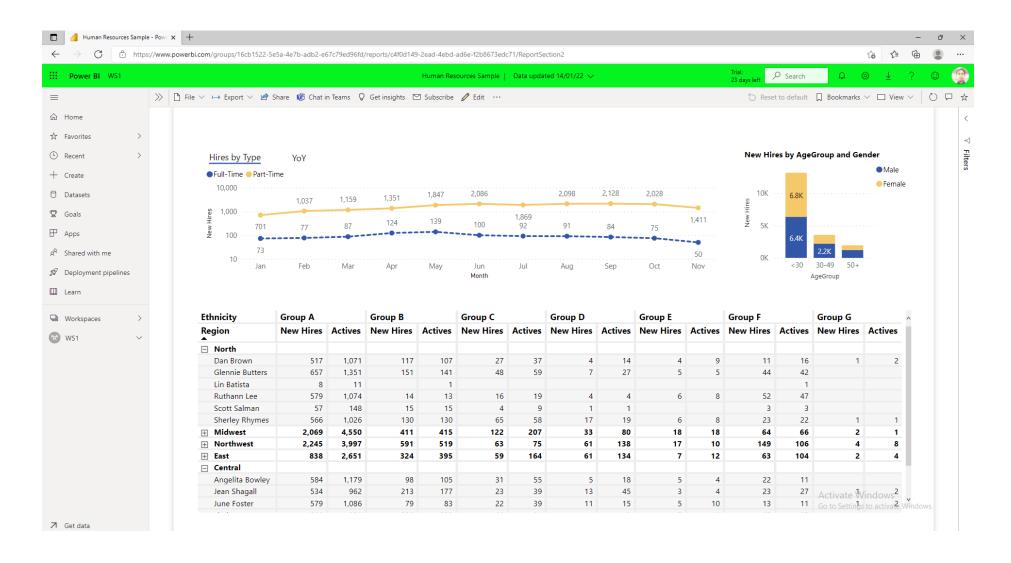


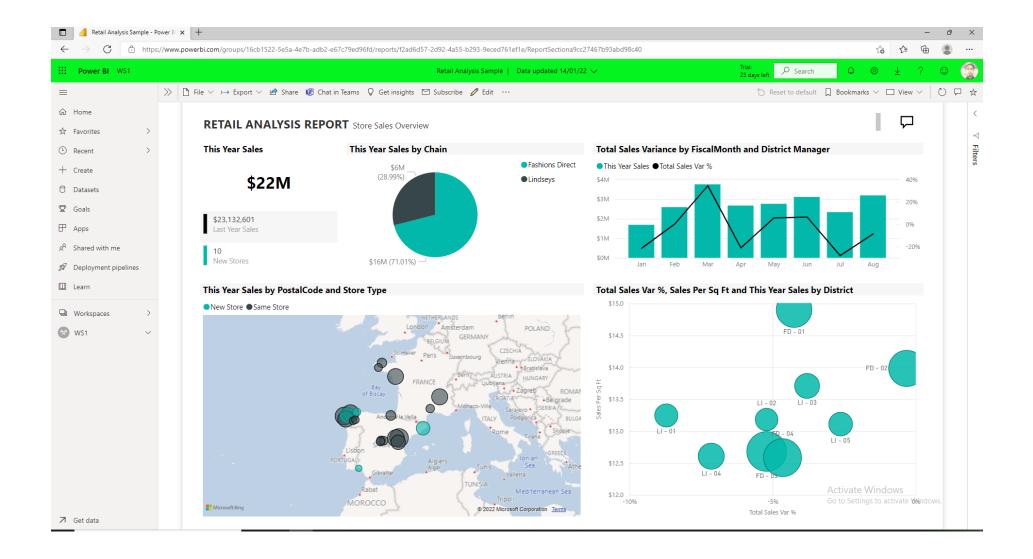
Received Source Workspace Id = slive.
Received Destination Workspace Id = WS1.
Workspace Report Human Resources Sample added.
Workspace Report IT Spend Analysis Sample added.
Workspace Report Opportunity Analysis Sample added.
Workspace Report Opportunity Analysis Sample added.
Workspace Report Sales and Marketing Sample added.

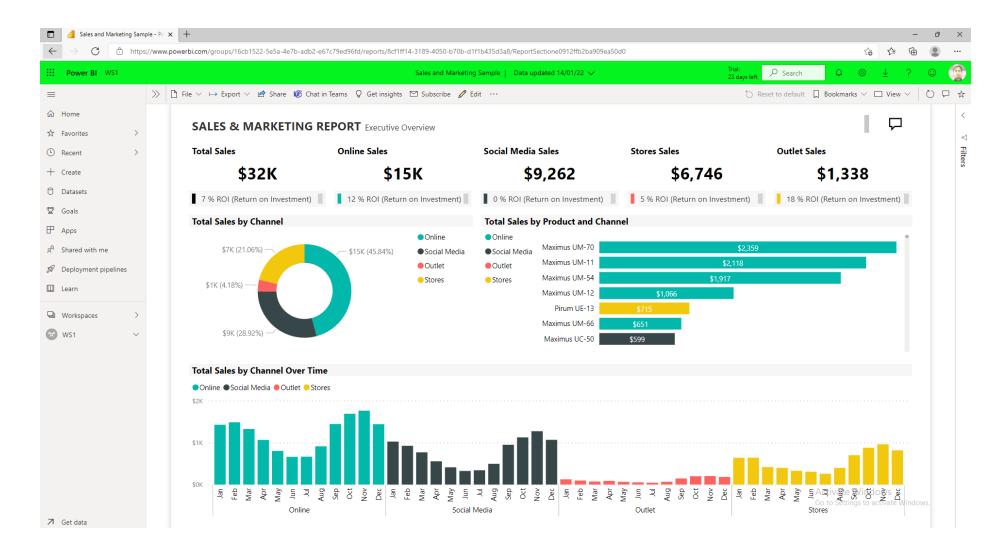
WS1 has got Reports Now



Looking into Reports as Just quick check

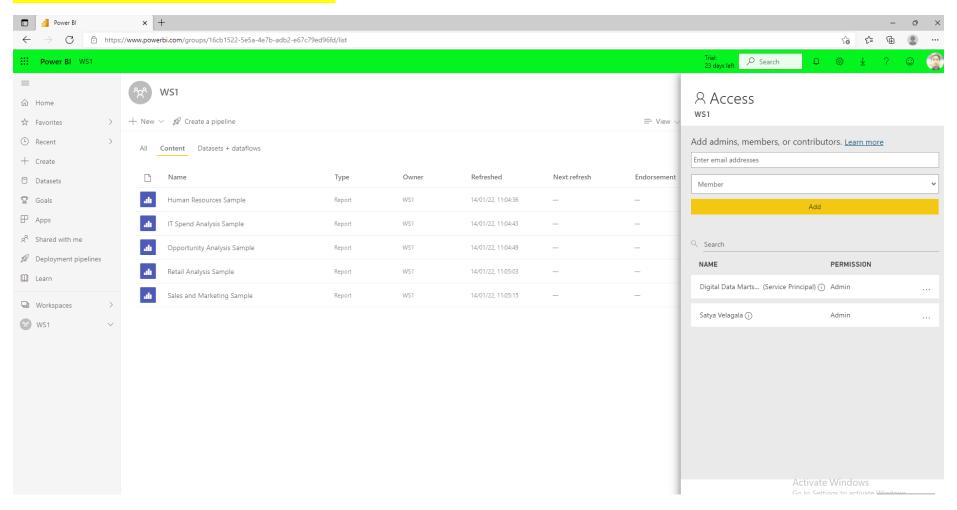






Setting Up User Access To Workspace: James.Smith@digitaldatamarts.com as Member Role for this newly created workspace WS1

Before there is No access for James on WS1 as below



Run Azure Function

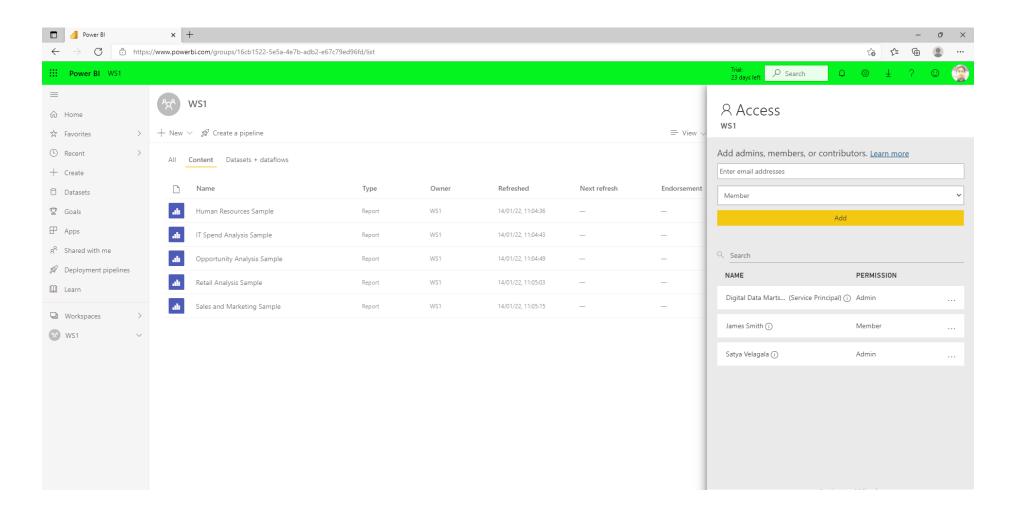


Function Run Completed

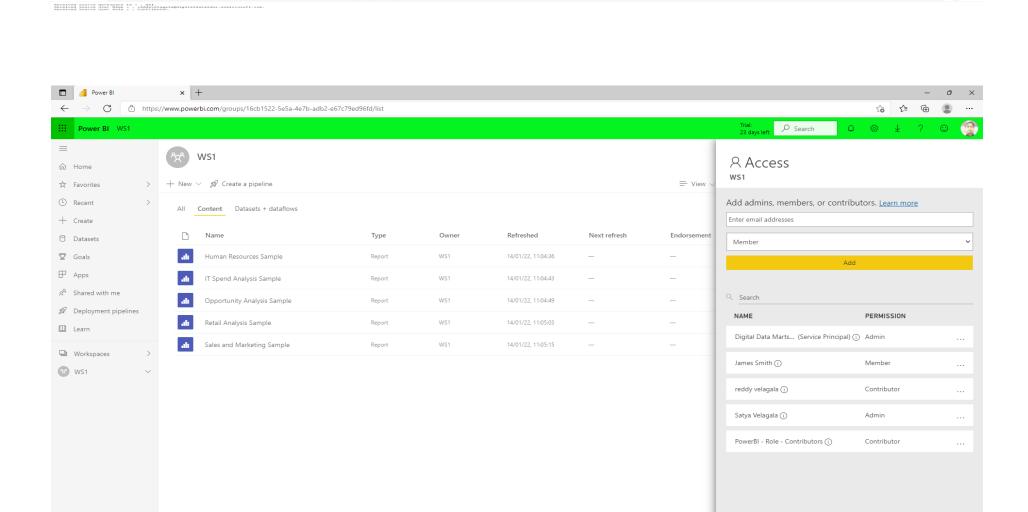


Received Source Workspace Id = , WS1. Received Source User Name = , james.smith@digitaldatamarts.com. Received Source User Role = , Member.

Now James has meber of the Workspace WS1



Add ReddyVelagala@digitaldatalabs.onmicrosoft.com as Contributor and also Group Called "Power BI Role -Contributors" as Contributor



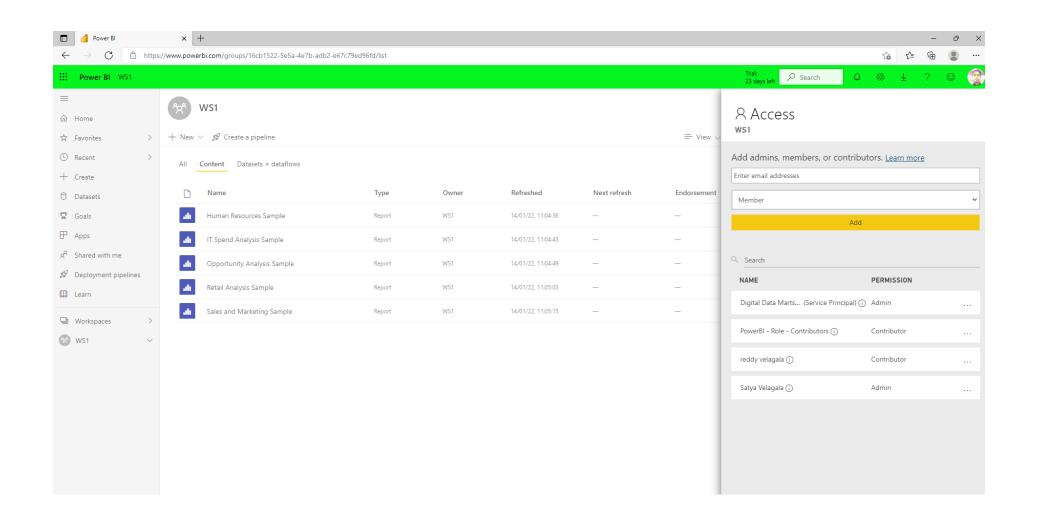
Go to Settings to activate

Close

Remove User From Workspace : James Smith Removed from Workspace WS1



User in Workspace = WS1 is getting deleted. User with name = James.Smith@digitaldatamarts.com is getting deleted. Deleted user = James.Smith@digitaldatamarts.com from workspace = WS1 successfully.



Remove Workspace Completely from Tenant



Workspace with name = WS1 is getting deleted. The Workspace WS1 is delted.

