I have created below tables for supporting above APIs in DB until now -> "dpa-ir-dev-cog-nonprod-5f2ab479.database.windows.net,1433"

**1. Business table**

CREATE TABLE [irpc].[tbl\_business\_types] (

business\_id VARCHAR(256) PRIMARY KEY,

business\_type VARCHAR(30) NOT NULL

);

**2.Access table**

CREATE TABLE [irpc].[tbl\_access\_table] (

access\_id VARCHAR(256) PRIMARY KEY,

access\_type VARCHAR(15) NOT NULL

);

**3. Report Icon Mapping table**

CREATE TABLE [irpc].[tbl\_report\_icon\_mapping] (

report\_id VARCHAR(256) PRIMARY KEY,

icon\_id VARCHAR(256) NOT NULL,

icon\_color VARCHAR(10) NOT NULL,

report\_name VARCHAR(50) NOT NULL,

user\_id VARCHAR(10) NOT NULL,

CONSTRAINT Unique\_Report\_Icon UNIQUE(icon\_id,icon\_color, report\_name),

CONSTRAINT Unique\_icon UNIQUE(icon\_id, icon\_color)

)

Constraints

- Unique\_icon – To ensure icon\_id and icon\_color combination to be unique for each report

- Unique\_Report\_Icon – To ensure report Name should be unique for combination of icon and iconcolor

**4. Icon Details table**

CREATE TABLE [irpc].[tbl\_icon\_details] (

icon\_id VARCHAR(256) PRIMARY KEY,

icon\_name VARCHAR(50),

icon\_path VARCHAR(MAX)

)

**5. ReportDetails Table**

CREATE TABLE [irpc].[tbl\_other\_report\_details] (

user\_id VARCHAR(10) NOT NULL,

report\_id VARCHAR(256) PRIMARY KEY,

report\_name VARCHAR(50) NOT NULL,

business\_id VARCHAR(256) NOT NULL,

access\_id VARCHAR(256) NOT NULL,

function\_id VARCHAR(256),

description VARCHAR(256),

created\_on DATETIME,

updated\_on DATETIME,

report\_address VARCHAR(256) NOT NULL,

no\_of\_downloads INTEGER,

archive\_date DATETIME DEFAULT NULL,

time\_period VARCHAR(30) NOT NULL,

period VARCHAR(30),

updated\_by VARCHAR(256) DEFAULT NULL

CONSTRAINT UKEY UNIQUE (user\_id, report\_id, report\_name, business\_id, access\_id)

)

ALTER TABLE [irpc].[tbl\_other\_report\_details] ADD CONSTRAINT [DF\_tbl\_adhoc\_report\_details\_created\_on] DEFAULT (getdate()) FOR [created\_on];

6. **User\_Email\_Mapping table**

Create TABLE [irpc].[tbl\_user\_email\_mapping] (

user\_id VARCHAR(10) PRIMARY KEY,

email\_id VARCHAR(50) NOT NULL

CONSTRAINT UNIQUE\_MAPPING UNIQUE(user\_id, email\_id)

);

**7. Report\_Email\_Mapping table**

Create TABLE [irpc].[tbl\_report\_email\_mapping] (

report\_id VARCHAR(256) NOT NULL ,

email\_id VARCHAR(50) NOT NULL

CONSTRAINT REPORT\_EMAIL\_MAPPING PRIMARY KEY(report\_id, email\_id)

);

Constraints

- Each report can have multiple users but the combination of report and user cannot be repeatative. So report\_id and email\_id combination is made unique in [irpc].[tbl\_report\_email\_mapping] table

**8. AdHoc Report Table**

CREATE TABLE [irpc].[tbl\_other\_reports\_address] (

report\_id VARCHAR(256) PRIMARY KEY,

report\_address VARCHAR(256) NOT NULL,

no\_of\_downloads INTEGER,

icon\_path VARCHAR(MAX) NOT NULL

)

**9. Business function Mapping table**

CREATE TABLE [irpc].[tbl\_business\_function\_mapping] (

function\_id VARCHAR(256) PRIMARY KEY,

business\_id VARCHAR(256) NOT NULL,

function\_type VARCHAR(30) NOT NULL

CONSTRAINT Unique\_function UNIQUE(business\_id, function\_type)

);

Constraints

- Each business can have multiple functionTypes but the combination of businessType and functionType should be unique.So business\_id and function\_type is unique

**10. Other Report Roles Table**

Create TABLE [irpc].[tbl\_other\_report\_roles] (

role\_id VARCHAR(256) PRIMARY KEY,

role\_name VARCHAR(30) NOT NULL,

business\_id VARCHAR(256) NOT NULL,

description VARCHAR(256)

CONSTRAINT businessRole UNIQUE (role\_name,business\_id)

)

Constraints

-Each role and businessType combination is unique. So to ensure that role\_name and business\_id is made unique

**11. User Roles Table**

Create TABLE [irpc].[tbl\_user\_role\_details] (

user\_id VARCHAR(256)

role\_id VARCHAR(256) PRIMARY KEY,

is\_active boolean ,

business\_id VARCHAR(256) NOT NULL

CONSTRAINT userBusinessMapping UNIQUE (user\_id,business\_id),

CONSTRAINT userRoleMapping PRIMARY KEY(user\_id, role\_id)

)

Constraints -

**-Under each user businessType each user can have only one role.**

For example - Under Sams Club, user can have either Owner/Admin/Nomal User permission but not combination of them under this businessType.

**-But a user can have multiple roles of different businessType**

For example - Owner of Sams Club and Admin of Enterprise.

-To ensure user and role combination does not get repeated, the combination of user\_id and role\_id is made unique.

**12. Popular Reports View**

CREATE view [irpc].[vw\_popular\_reports] AS (

SELECT TOP (1000) b.user\_id,b.email\_id,a.report\_id,c.report\_name,c.business\_id,c.access\_id,c.[description],d.icon\_id,d.icon\_color,

e.icon\_path,c.report\_address,c.no\_of\_downloads

FROM [irpc].[tbl\_report\_email\_mapping] a ,[irpc].[tbl\_user\_email\_mapping] b,[irpc].[tbl\_other\_report\_details] c,

[irpc].[tbl\_report\_icon\_mapping] d,[irpc].[tbl\_icon\_details] e, [irpc].[tbl\_access\_table] f

WHERE a.email\_id = b.email\_id and a.report\_id = c.report\_id and a.report\_id = d.report\_id and d.icon\_id = e.icon\_id and c.access\_id = f.access\_id and

f.access\_type!='private')

GO

Select a.user\_id, a.access\_id, a.business\_id, a.description, a.report\_id, a.report\_name, a.report\_address, a.no\_of\_downloads,

b.icon\_id,b.icon\_color,c.email\_id,d.icon\_name, d.icon\_path

from [irpc].[tbl\_other\_report\_details] a, [irpc].[tbl\_report\_icon\_mapping] b, [irpc].[tbl\_user\_email\_mapping] c, [irpc].[tbl\_icon\_details] d,

[irpc].[tbl\_access\_table] f

where a.report\_id = b.report\_id and a.access\_id = f.access\_id and a.user\_id = c.user\_id and b.icon\_id = d.icon\_id and f.access\_type!='private'

order by a.no\_of\_downloads desc;

**13. Peers Reports View**

CREATE view [irpc].[vw\_peer\_reports] AS

select distinct c.user\_id, a.report\_id, a.report\_name, a.business\_id, a.access\_id, a.description, a.function\_id, a.time\_period, a.period,a.created\_on,a.updated\_on, b.icon\_id, b.icon\_color, c.email\_id, a.report\_address, e.icon\_path

from [irpc].[tbl\_other\_report\_details] a, [irpc].[tbl\_report\_icon\_mapping] b, [irpc].[tbl\_user\_email\_mapping] c, [irpc].[tbl\_report\_email\_mapping] d,

[irpc].[tbl\_icon\_details] e, [irpc].[tbl\_access\_table] f

where a.user\_id != c.user\_id

and a.report\_id = b.report\_id

and a.report\_id = d.report\_id

and b.icon\_id = e.icon\_id

and a.access\_id = f.access\_id

and a.archive\_date IS NULL

and ((f.access\_type != 'private'

and c.email\_id = d.email\_id) OR (f.access\_type = 'public'));

GO

**14.Azure Blob storage details**

#==================AZURE STORAGE ACCOUNT CONFIGURATION============================================

azure.name=25b1072e87stg

azure.appId=dba0191a-787f-4599-bf62-c6b276db3d14

azure.subscription\_id=e3648e32-e27d-4659-99fd-136d9b974495

azure.subsription\_name=sp-pl-storageaccount-nonprod-000

azure.tenant\_id=3cbcc3d3-094d-4006-9849-0d11d61f484d

azure.resource\_group\_name=25b1072e87sarg

azure.key=ASL8NCUW2SXmaf2HDJxlyI7Dyvr0F9OMDf86DEAf1hKvZiLNaVqNemkgA5/0vW0ertDJ1olS298Chl0Ao5p9FA==

15. Color Codes Supported

["#bfeff5","#7fdeea","#40cddf","#00bcd4","#008d9f","#005f6b",

"#d3ebd4","#a6d7a8","#79c47c","#4caf50","#39843c","#275829",

"#e2f0d2","#c5e1a5","#a9d378","#8bc34a","#699338","#466226",

"#fff0c1","#ffe083","#ffd146","#ffc107","#bf9106","#806104",

"#ffe0bf","#ffc07f","#ffa140","#ff8100","#bf6100","#804100",

"#fdd0cd","#faa19b","#f77369","#f44336","#b73329","#7b221c",

"#e7c9ec","#ce93d8","#b55ec4","#9c27b0","#751e84","#4f1459",

"#c8e5fc","#90cbf9","#59b1f7","#2196f3","#1971b7","#114c7a"]