Either we can only run this on stored procedures, or we can build this into our documentation requirements for each production level model, report, and/or ad-hoc query. If we require authors to execute the prompt after building a piece of code, people can then search for ad-hoc analyses. They can also then differentiate references in the code by whether or not they were a primary output OF the code, or just found IN the code, which is a lot more useful. That currently requires a human eye to confirm. I’m pretty sure it can be automated, but it would need a bit more work to perfect. The code currently makes a guess and designates everything that shows up in the final select or update statement as “primary”, but that’s probably only around 40% accurate.

**Use Case #1**: *See Reports with Specific Output*

**Example**: Blake is doing an Ad-Hoc on ACH Opt-In Rates. He wants to know – what production reports do we already have that show this metric?

SELECT DISTINCT r.Server, s.ObjectName, s.ObjectType, s.ObjectDescription, s.InsertDate, s.LastSearched

FROM Sandbox2.dbo.CodeSearch\_References\_v1 r

join Sandbox2.dbo.CodeSearch\_Aliases\_v1 a

on r.CodeSearchID = a.CodeSearchID and r.AliasID = a.AliasID

join Sandbox2.dbo.CodeSearch\_Tables\_v1 t

on a.CodeSearchID = t.CodeSearchID and a.SnippetID = t.SnippetID

join Sandbox2.dbo.CodeSearch\_Searches\_v1 s

on r.CodeSearchID = s.CodeSearchID

WHERE 1=1

AND r.IsPrimaryOutput = 1

AND s.IsReport = 1

and r.Field like ‘ACH%’

and r.Field like ‘%Opt%’

**Use Case #2**: *Find ad-hoc reports on certain subjects or containing specific logic strings*

**Example**: An analyst leaves the company. Jeremy sees a ticket related to page flows in LeadEnvy. He remembers there was an ad-hoc about a year ago that was related to this, but he can’t find it in Jira. Instead of starting from scratch, he wants to repurpose the code from that ad-hoc. He can now search the CodeLibrary for ad-hocs both by the description or by the data structures referenced in the code.

SELECT DISTINCT r.Server, s.ObjectName, s.ObjectType, s.ObjectDescription, s.InsertDate, s.LastSearched

FROM Sandbox2.dbo.CodeSearch\_References\_v1 r

join Sandbox2.dbo.CodeSearch\_Aliases\_v1 a on r.CodeSearchID = a.CodeSearchID and r.AliasID = a.AliasID

join Sandbox2.dbo.CodeSearch\_Tables\_v1 t on a.CodeSearchID = t.CodeSearchID and a.SnippetID = t.SnippetID

join Sandbox2.dbo.CodeSearch\_Searches\_v1 s on r.CodeSearchID = s.CodeSearchID

WHERE 1=1

AND s.ObjectType = 'Ad-Hoc'

AND (CASE when CHARINDEX('Page', s.ObjectDescription) > 0 then 1

when CHARINDEX('Traffic', s.ObjectDescription) > 0 then 1

else 0 END) = 1

OR (r.[Database] = 'LeadEnvy'

AND r.[Table] IN ('TestFlowPages', 'TestFlows', 'TestGroups'))

**Use Case #3**: *Find Models With Specific Training Input*

**Example**: EP sees that a Lead Provider is gaming the system by assigning artificially increased RequestedAmounts. He would like to see what model scores might be influenced by this, based on to our use of this as a variable.

SELECT DISTINCT r.Server, s.ObjectName, s.ObjectType, s.ObjectDescription, s.InsertDate, s.LastSearched

FROM Sandbox2.dbo.CodeSearch\_References\_v1 r

join Sandbox2.dbo.CodeSearch\_Aliases\_v1 a

on r.CodeSearchID = a.CodeSearchID and r.AliasID = a.AliasID

join Sandbox2.dbo.CodeSearch\_Tables\_v1 t

on a.CodeSearchID = t.CodeSearchID and a.SnippetID = t.SnippetID

join Sandbox2.dbo.CodeSearch\_Searches\_v1 s

on r.CodeSearchID = s.CodeSearchID

WHERE 1=1

AND r.IsPrimaryOutput = 1

AND s.IsModelTraining = 1

and r.Field like ‘Requested%’

and (r.Field like '%Amt%' or r.Field like '%Amount%')

**Use Case #4**: *Search for portfolio-specific logic*

**Example**: After we add another portfolio, Justin wants to check to see if there are any remaining views or stored procedures with portfolio-specific logic that still need to be updated.

SELECT DISTINCT r.Server, s.ObjectName, s.ObjectType, s.ObjectDescription

FROM Sandbox2.dbo.CodeSearch\_References\_v1 r

join Sandbox2.dbo.CodeSearch\_Aliases\_v1 a

on r.CodeSearchID = a.CodeSearchID and r.AliasID = a.AliasID

join Sandbox2.dbo.CodeSearch\_Tables\_v1 t

on a.CodeSearchID = t.CodeSearchID and a.SnippetID = t.SnippetID

join Sandbox2.dbo.CodeSearch\_Searches\_v1 s

on r.CodeSearchID = s.CodeSearchID

WHERE CHARINDEX('DatasourceID = 1', s.FullString) > 0

**Use Case #5**: *Find all dependencies of a broken field or table*

**Example**: Adam discovers that in some cases, we might be pulling the wrong row from LoanDocsTrackingV2. What other sprocs and reports join to that table?

SELECT DISTINCT r.Server, s.ObjectName, s.ObjectType, s.ObjectDescription, s.InsertDate, s.LastSearched, s.ObjectID, s.FullString

FROM Sandbox2.dbo.CodeSearch\_References\_v1 r

join Sandbox2.dbo.CodeSearch\_Aliases\_v1 a

on r.CodeSearchID = a.CodeSearchID and r.AliasID = a.AliasID

join Sandbox2.dbo.CodeSearch\_Tables\_v1 t

on a.CodeSearchID = t.CodeSearchID and a.SnippetID = t.SnippetID

join Sandbox2.dbo.CodeSearch\_Searches\_v1 s

on r.CodeSearchID = s.CodeSearchID

WHERE 1=1

AND s.ObjectType = 'Stored Proc'

AND (r.[Database] = 'LeadEnvy' and r.[Table] = 'LoanDocsTrackingV2')

**Use Case #6**: *Search the actual code snippet that references the table in Use Case #5*

**Example**: Adam then wants to see the logic in all those instances where a sproc references that table. He can look at the logic for ALL those sprocs at one time, with one query.

SELECT DISTINCT s.ObjectID, s.FullString

INTO #strings

FROM Sandbox2.dbo.CodeSearch\_References\_v1 r

join Sandbox2.dbo.CodeSearch\_Aliases\_v1 a

on r.CodeSearchID = a.CodeSearchID and r.AliasID = a.AliasID

join Sandbox2.dbo.CodeSearch\_Tables\_v1 t

on a.CodeSearchID = t.CodeSearchID and a.SnippetID = t.SnippetID

join Sandbox2.dbo.CodeSearch\_Searches\_v1 s

on r.CodeSearchID = s.CodeSearchID

WHERE 1=1

AND s.ObjectType = 'Stored Proc'

AND (r.[Database] = 'LeadEnvy' and r.[Table] = 'LoanDocsTrackingV2')

select s.ObjectID, s.FullString,

'Snippet' = substring(s.FullString,

CHARINDEX('LoanDocsTrackingV2', s.FullString) - 200, 400)

from #strings s

Where CHARINDEX(‘LoanDocsTrackingV2', s.FullString) > 0