REG Data Quality Project - Asset Management Metric RAMM SQL Scripts

Introduction

This document contains scripts for each of the 32 data quality metrics that can be run on your network. It provides you with the ability to run the suite of data quality metrics on your RAMM database.

We recommend that the person running these scripts be familiar with SQL and the RAMM database tables and structure.

These scripts are for version 3.1 of the DQP Asset Management Report.

Selecting the SQL to run in RAMM

To run the scripts, simply copy and paste the contents in the grey box into RAMM SQL. The easiest way to do this is to hover over the top left corner of the box and click on the , right click and select copy.

Metrics that are time bound (ie reporting against financial years)

A number of the metrics interrogate the data for a specified time period. The desired financial year to be reported can be selected by changing the date specified at the top of the SQL script. This should be set to the end of the financial year. For example, results for the 2016/17 financial year would have a date of ‘2017-06-30‘.

TIO Metrics (Su1a, Su1b and Pa1)

These metrics use data from both RAMM and TIO. The scripts for these metrics only return the RAMM output. For example, the Su1a script output is the total area chipseal resurfacing renewals as-builted in RAMM. You need to divide this quantity by what you have reported as achieved in TIO and multiply by 100 to get each result as per the below example:

*Su1a = (RAMM chipseal as-built quantity / TIO chipseal achieved quantity) \* 100*

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| **Asset Management SQL Scripts** |

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| -- =============================================================================--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ASSET MANAGEMENT DATA QUALITY\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*-- =============================================================================--Initialise desired financial year by changing the date below.--Example: Results for 2016/17 would have a date of 2017-06-30 create table #tempDate(targetDate datetime);insert #tempDate(targetDate) values('2018-06-30');----------------------------------------------------------------------------------Road network complete--Alignment in length between carriageways and centrelines. --Percentage of network length (based on carriageway sections) where map centreline length within 10% of measured road length.--Where road type = "L" and owner type = "L"--Ref - AM-Ca1--------------------------------------------------------------------------------select sum(c.length\_m) as total\_cway\_lengthinto #temp\_total\_cway\_lengthfrom carr\_way cwhere road\_id in (select road\_id from roadnames where road\_type = 'L') and owner\_type = 'L';select distinct csl.road\_id, csl.map\_sequence, csl.length\_m as temp\_lengthinto #temp\_lengthfrom centreline\_segment\_length csljoin carr\_way con csl.road\_id = c.road\_idwhere csl.road\_id in (select road\_id from roadnames where road\_type = 'L')and owner\_type = 'L';select road\_id, sum(temp\_length) as centre\_lengthinto #temp\_centre\_lengthfrom #temp\_lengthgroup by road\_id;select road\_id, sum(length\_m) as cway\_length into #temp\_cway\_lengthfrom carr\_waywhere road\_id in (select road\_id from roadnames where road\_type = 'L')and owner\_type = 'L'group by road\_id;select l.road\_id, centre\_length, cway\_length,(case when cast(centre\_length as decimal)/cast(cway\_length as decimal) <=1.1 and cast(centre\_length as decimal)/cast(cway\_length as decimal) >=0.9 then 1 else 0 end) as aligned\_lengthinto #temp\_aligned\_lengthfrom #temp\_centre\_length ljoin #temp\_cway\_length con l.road\_id = c.road\_idwhere cway\_length > 0;select sum(cway\_length) as total\_centre\_lengthinto #temp\_total\_centre\_lengthfrom #temp\_aligned\_lengthwhere aligned\_length = 1;select (cast(total\_centre\_length as decimal)) / (cast(total\_cway\_length as decimal)) \*100 as AM\_Ca1 --pc\_length\_alignedinto #temp\_cway\_1from #temp\_total\_centre\_length, #temp\_total\_cway\_length;drop table #temp\_total\_cway\_length, #temp\_length, #temp\_centre\_length, #temp\_cway\_length, #temp\_aligned\_length, #temp\_total\_centre\_length;----------------------------------------------------------------------------------ONRC categories assigned to new carriageways--Percentage of carriageway sections added in the reported financial year with an ONRC category assigned. --Where road type = "L" and owner type = "L". --Ref - AM-Ca2--------------------------------------------------------------------------------select count(\*) as total\_cway\_onrcinto #temp\_total\_cway\_onrcfrom carr\_way cjoin onrc\_cway\_view oon o.carr\_way\_no = c.carr\_way\_nowhere c.added\_on between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate) and c.road\_id in (select road\_id from roadnames where road\_type = 'L') and c.owner\_type = 'L' and o.category\_id is not null;select count(\*) as total\_cway\_addedinto #temp\_total\_cway\_addedfrom carr\_way cwhere c.added\_on between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate) and c.road\_id in (select road\_id from roadnames where road\_type = 'L') and c.owner\_type = 'L'; select (cast(total\_cway\_onrc as decimal)) / (cast(total\_cway\_added as decimal)) \*100 as AM\_Ca2 --pc\_new\_cway\_with\_onrcinto #temp\_cway\_2from #temp\_total\_cway\_added, #temp\_total\_cway\_onrc;drop table #temp\_total\_cway\_added, #temp\_total\_cway\_onrc;----------------------------------------------------------------------------------Assigned ONRC category aligns with traffic--Percentage of carriageway sections where the place function doesn't override the traffic where the assigned ONRC is aligned with latest traffic estimate AADT and daily heavy traffic . --Where Rules Override is "False".--Ref - AM-Ca3---------------------------------------------------------------------------------- Low Volume Category Carriageway Section with consistent AADTselect count(\*) as tot\_low\_volinto #temp\_tot\_low\_volfrom onrc\_cway\_view ojoin carr\_way\_view con o.carr\_way\_no = c.carr\_way\_no where o.rules\_override = 'false'and o.category\_id = 1and ((c.traffic\_adt\_est < 50 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <25)or (c.traffic\_adt\_est < 200 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <25));update #temp\_tot\_low\_volset tot\_low\_vol = 0where tot\_low\_vol is null;-- Access Category Carriageway Section with consistent AADTselect count(\*) as tot\_accessinto #temp\_tot\_accessfrom onrc\_cway\_view ojoin carr\_way\_view con o.carr\_way\_no = c.carr\_way\_no where o.rules\_override = 'false'and o.category\_id = 2and ((c.traffic\_adt\_est between 50 and 199 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <25)or (c.traffic\_adt\_est between 200 and 999 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <25));update #temp\_tot\_accessset tot\_access = 0where tot\_access is null;-- Secondary Collector Category Carriageway Section with consistent AADTselect count(\*) as tot\_sec\_collinto #temp\_tot\_sec\_collfrom onrc\_cway\_view ojoin carr\_way\_view con o.carr\_way\_no = c.carr\_way\_no where o.rules\_override = 'false'and o.category\_id = 3and ((c.traffic\_adt\_est between 200 and 999 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <150)or (c.traffic\_adt\_est between 1000 and 2999 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <150)or (c.traffic\_adt\_est <200 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 25 and 149)or (c.traffic\_adt\_est <3000 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 25 and 149));update #temp\_tot\_sec\_collset tot\_sec\_coll = 0where tot\_sec\_coll is null;-- Primary Collector Category Carriageway Section with consistent AADTselect count(\*) as tot\_pri\_collinto #temp\_tot\_pri\_collfrom onrc\_cway\_view ojoin carr\_way\_view con o.carr\_way\_no = c.carr\_way\_no where o.rules\_override = 'false'and o.category\_id = 4and ((c.traffic\_adt\_est between 1000 and 2999 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <300)or (c.traffic\_adt\_est between 3000 and 4999 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <300)or (c.traffic\_adt\_est <1000 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 150 and 299)or (c.traffic\_adt\_est <3000 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 150 and 299));update #temp\_tot\_pri\_collset tot\_pri\_coll = 0where tot\_pri\_coll is null;-- Arterial Category Carriageway Section with consistent AADTselect count(\*) as tot\_artinto #temp\_tot\_artfrom onrc\_cway\_view ojoin carr\_way\_view con o.carr\_way\_no = c.carr\_way\_no where o.rules\_override = 'false'and o.category\_id = 5and ((c.traffic\_adt\_est between 3000 and 9999 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <400)or (c.traffic\_adt\_est between 5000 and 14999 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <400)or (c.traffic\_adt\_est <3000 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 300 and 399)or (c.traffic\_adt\_est <5000 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 300 and 399));update #temp\_tot\_artset tot\_art = 0where tot\_art is null;-- Regional Category Carriageway Section with consistent AADTselect count(\*) as tot\_reginto #temp\_tot\_regfrom onrc\_cway\_view ojoin carr\_way\_view con o.carr\_way\_no = c.carr\_way\_no where o.rules\_override = 'false'and o.category\_id = 6and ((c.traffic\_adt\_est between 10000 and 14999 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <800)or (c.traffic\_adt\_est between 15000 and 24999 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <800)or (c.traffic\_adt\_est <10000 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 400 and 799)or (c.traffic\_adt\_est <15000 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 400 and 799));update #temp\_tot\_regset tot\_reg = 0where tot\_reg is null;-- National Category Carriageway Section with consistent AADTselect count(\*) as tot\_natinto #temp\_tot\_natfrom onrc\_cway\_view ojoin carr\_way\_view con o.carr\_way\_no = c.carr\_way\_no where o.rules\_override = 'false'and o.category\_id = 7and ((c.traffic\_adt\_est between 15000 and 19999 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <1200)or (c.traffic\_adt\_est between 25000 and 34999 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) <1200)or (c.traffic\_adt\_est <15000 and c.urban\_rural = 'R' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 800 and 1199)or (c.traffic\_adt\_est <25000 and c.urban\_rural = 'U' and cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) between 800 and 1199));update #temp\_tot\_natset tot\_nat = 0where tot\_nat is null;-- High Volume Category Carriageway Section with consistent AADTselect count(\*) as tot\_high\_volinto #temp\_tot\_high\_volfrom onrc\_cway\_view ojoin carr\_way\_view con o.carr\_way\_no = c.carr\_way\_no where o.rules\_override = 'false'and o.category\_id = 8and ((c.traffic\_adt\_est >= 20000 and c.urban\_rural = 'R')or (c.traffic\_adt\_est >= 35000 and c.urban\_rural = 'U')or cast(c.traffic\_adt\_est as decimal)\*(cast(c.loading\_pc\_heavy as decimal)/100) >= 1200);update #temp\_tot\_high\_volset tot\_high\_vol = 0where tot\_high\_vol is null;-- Total sections with ONRCselect count(\*) tot\_onrcinto #temp\_tot\_onrcfrom onrc\_cway\_view ojoin carr\_way\_view con o.carr\_way\_no = c.carr\_way\_no where rules\_override = 'false'and category\_id is not null; select (cast((tot\_low\_vol + tot\_access + tot\_sec\_coll + tot\_pri\_coll + tot\_art + tot\_reg + tot\_nat + tot\_high\_vol) as decimal)/cast(tot\_onrc as decimal) \* 100) as AM\_Ca3 --pc\_onrc\_traffic\_alignmentinto #temp\_cway\_3from #temp\_tot\_low\_vol, #temp\_tot\_access, #temp\_tot\_sec\_coll, #temp\_tot\_pri\_coll, #temp\_tot\_art, #temp\_tot\_reg, #temp\_tot\_nat, #temp\_tot\_high\_vol, #temp\_tot\_onrc;drop table #temp\_tot\_low\_vol, #temp\_tot\_access, #temp\_tot\_sec\_coll, #temp\_tot\_pri\_coll, #temp\_tot\_art, #temp\_tot\_reg, #temp\_tot\_nat, #temp\_tot\_high\_vol, #temp\_tot\_onrc;----------------------------------------------------------------------------------Treatment Length dimensions match sealed area--Percentage of sealed treatment length records with a recorded sealed area <150% of the length \* width.--Excludes disabled treatment lengths and pavement type "Bridge".--Ref - AM-TL1--------------------------------------------------------------------------------select count(\*) as tls\_totinto #temp\_tls\_totfrom treatment\_length twhere tl\_disabled = 'N' and t.pavement\_type in ('T', 'S', 'C') and t.road\_id in (select road\_id from roadnames where road\_type = 'L') and t.asset\_owner = 'L';select count(\*) as tls\_less\_150into #temp\_tls\_less\_150from treatment\_length twhere tl\_disabled = 'N'and tl\_sealed\_area < (tl\_length\_m\*tl\_width\*1.5) and t.pavement\_type in ('T', 'S', 'C') and t.road\_id in (select road\_id from roadnames where road\_type = 'L') and t.asset\_owner = 'L';select (cast(tls\_less\_150 as decimal)) / (cast(tls\_tot as decimal)) \*100 as AM\_TL1 --pc\_TL\_less\_150\_sealed\_areainto #temp\_treat\_1from #temp\_tls\_less\_150, #temp\_tls\_tot;drop table #temp\_tls\_less\_150, #temp\_tls\_tot;-- =============================================================================--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*ASSET INVENTORY\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*-- =============================================================================----------------------------------------------------------------------------------Achieved chipseal resurfacing renewal programme as-builted--Percentage of achieved chipseal resurfacing renewals reported in TIO and as-builted in RAMM (in m2) for reported financial year--Where work\_category\_code = 212--Ref - AM-Su1a--------------------------------------------------------------------------------select sum(case when s.surf\_width is not null then s.surf\_width\*s.length\_m else c.cway\_width\*s.length\_m end) as AM\_Su1ainto #temp\_surf\_1afrom surface\_structure sjoin carr\_way con s.road\_id = c.road\_idand s.carrway\_start\_m = c.carrway\_start\_mjoin surf\_material m on s.surf\_material = m.surf\_materialjoin fund\_work\_origin fwon s.work\_origin\_id = fw.idjoin fund\_work\_category fcon fw.work\_category\_id = fc.idwhere surf\_sectioning = 'C'and major\_surface = 'Y'and surf\_structure\_set = 'T'and m.surf\_category = 'CHIP'and s.surface\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate)and fc.work\_category\_code = '212';----------------------------------------------------------------------------------Achieved asphaltic concrete resurfacing renewal programme as-builted--Percentage of achieved asphaltic concrete resurfacing renewals reported in TIO and as-builted in RAMM (in m2) for reported financial year--Where work\_category\_code = 212--Ref - AM-Su1b--------------------------------------------------------------------------------select sum(case when cs.lane\_coverage is not null then cs.lane\_coverage\*ss.length\_m else c.lanes\*ss.length\_m end)/1000.00 as AM\_Su1binto #temp\_surf\_1bfrom surface\_structure ssjoin c\_surface cson cs.c\_surface\_id = ss.c\_surface\_idjoin carr\_way con ss.road\_id = c.road\_idand ss.carrway\_start\_m = c.carrway\_start\_mjoin surf\_material m on ss.surf\_material = m.surf\_materialjoin fund\_work\_origin fwon ss.work\_origin\_id = fw.idjoin fund\_work\_category fcon fw.work\_category\_id = fc.idwhere ss.surf\_sectioning = 'C'and ss.major\_surface = 'Y'and ss.surf\_structure\_set = 'T'and m.surf\_category = 'AM'and ss.surface\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate)and fc.work\_category\_code = '212';----------------------------------------------------------------------------------Surface records have valid attribute data--Percentage of top surface records with a valid chip size (AM>=7, CS<=6, 2nd chip recorded for 2CHIP and RACK), surface function (AC <> "M" or "1"), and a recorded top surface life (not null)--Where owner type = "L".--Ref - AM-Su2----------------------------------------------------------------------------------Valid ACSELECT count(\*) valid\_acinto #temp\_valid\_acfrom treatment\_length tjoin surf\_material sm on t.surf\_material = sm.surf\_materialwhere surf\_category = 'AM'and first\_chip\_size >= 7and surf\_function not in ('M', '1')and top\_surface\_life is not nulland surf\_binder is not nulland tl\_disabled = 'N'and pavement\_type in ('T', 'S')and t.road\_id in (select road\_id from roadnames where road\_type = 'L') and t.asset\_owner = 'L';--Valid Chip\_2coatSELECT count(\*) valid\_chip2into #temp\_valid\_chip2from treatment\_length tjoin surf\_material sm on t.surf\_material = sm.surf\_materialwhere surf\_category = 'CHIP'and t.surf\_material in ('2CHIP', 'RACK')and first\_chip\_size <= 6and top\_surface\_life is not nulland surf\_binder is not nulland second\_chip\_size is not nulland tl\_disabled = 'N'and pavement\_type in ('T', 'S')and t.road\_id in (select road\_id from roadnames where road\_type = 'L')and t.asset\_owner = 'L';--Valid Chip\_1coatSELECT count(\*) valid\_chip1into #temp\_valid\_chip1from treatment\_length tjoin surf\_material sm on t.surf\_material = sm.surf\_materialwhere surf\_category = 'CHIP'and t.surf\_material not in ('2CHIP', 'RACK')and first\_chip\_size <= 6and top\_surface\_life is not nulland surf\_binder is not nulland tl\_disabled = 'N'and pavement\_type in ('T', 'S')and t.road\_id in (select road\_id from roadnames where road\_type = 'L')and t.asset\_owner = 'L';SELECT count(\*) tot\_tlsinto #temp\_tot\_tlsfrom treatment\_length tjoin surf\_material sm on t.surf\_material = sm.surf\_materialwhere surf\_category in ('AM', 'CHIP')and tl\_disabled = 'N'and pavement\_type in ('T', 'S')and t.road\_id in (select road\_id from roadnames where road\_type = 'L')and t.asset\_owner = 'L'; select (cast(valid\_ac + valid\_chip2 + valid\_chip1 as decimal) / cast(tot\_tls as decimal))\*100 as AM\_Su2 --pc\_valid\_surfinto #temp\_surf\_2from #temp\_valid\_ac, #temp\_valid\_chip2, #temp\_valid\_chip1, #temp\_tot\_tls;drop table #temp\_valid\_ac, #temp\_valid\_chip2, #temp\_valid\_chip1, #temp\_tot\_tls;----------------------------------------------------------------------------------Pavement renewal programme achieved and as-builted--Percentage of planned and achieved length reported in TIO as-builted in RAMM (in m2) for last financial year--Where work category is 214--Ref - AM-Pa1--------------------------------------------------------------------------------select sum(case when p.width is not null then p.width\*p.length\_m else t.tl\_width\*p.length\_m end) as AM\_Pa1into #temp\_pave\_1from pave\_structure pjoin treatment\_length ton p.road\_id = t.road\_idand p.treat\_length\_id = t.treat\_length\_idjoin fund\_work\_origin fwon p.work\_origin\_id = fw.idjoin fund\_work\_category fcon fw.work\_category\_id = fc.idwhere structure\_set = 'M'and layer\_no = 1and p.layer\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate)and fc.work\_category\_code = '214';----------------------------------------------------------------------------------Pavement layer records have valid attribute data--Percentage of pavement layer records with a layer date in the reported financial year and a known material and source, recorded width when not full width and thickness between 50mm and 500mm. --Excludes subgrade records.--Ref - AM-Pa2--------------------------------------------------------------------------------select count(layer\_id) as all\_paveinto #temp\_all\_pavefrom pave\_layer pjoin carr\_way on (carr\_way.road\_id = p.road\_id)  and (p.start\_m >= carr\_way.carrway\_start\_m  and p.start\_m < carr\_way.carrway\_end\_m)  and carr\_way.road\_id in (select road\_id from roadnames where road\_type = 'L') and owner\_type = 'L'and layer\_subgrade = 'L'and layer\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate);select count(layer\_id) as valid\_paveinto #temp\_valid\_pavefrom pave\_layer pjoin carr\_way on (carr\_way.road\_id = p.road\_id)  and (p.start\_m >= carr\_way.carrway\_start\_m  and p.start\_m < carr\_way.carrway\_end\_m)  and carr\_way.road\_id in (select road\_id from roadnames where road\_type = 'L') and owner\_type = 'L'where layer\_subgrade = 'L'and thickness between 50 and 500 and ((width is not null and full\_width\_flag = 'N') orfull\_width\_flag = 'Y')and pave\_material is not nulland pave\_material not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN', 'UNKNOW')and pave\_source is not nulland pave\_source not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN', 'UNKNOW')and layer\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate);  select (cast(valid\_pave as decimal)) / (cast(all\_pave as decimal))\*100 as AM\_Pa2 -- pc\_pave\_layer\_valid into #temp\_pave\_2from #temp\_valid\_pave, #temp\_all\_pave; drop table #temp\_valid\_pave;-------------------------------------------------------------------------------- --Pavement layer records with work origin--Percentage of pavement layer records added in the reported financial year with a recorded work origin/category. --Excludes subgrade records.--Ref - AM-Pa3--------------------------------------------------------------------------------{Select current top surfaces with works origin/category}select count(layer\_id) as work\_origin\_recordedinto #temp\_work\_originfrom pave\_layer pjoin carr\_way on (carr\_way.road\_id = p.road\_id)  and (p.start\_m >= carr\_way.carrway\_start\_m  and p.start\_m < carr\_way.carrway\_end\_m)  and carr\_way.road\_id in (select road\_id from roadnames where road\_type = 'L') and owner\_type = 'L' and layer\_subgrade = 'L' and work\_origin\_id is not null and layer\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate);update #temp\_work\_origin set work\_origin\_recorded = 0 where work\_origin\_recorded is null; {Express as % surfaces with works origin/category}select (cast(work\_origin\_recorded as decimal)) / (cast(all\_pave as decimal)) \*100 as AM\_Pa3 --pc\_layer\_with\_works\_origininto #temp\_pave\_3from #temp\_all\_pave, #temp\_work\_origin;drop table #temp\_work\_origin, #temp\_all\_pave;----------------------------------------------------------------------------------Footpath records have valid dimensions, material and known age--Percentage of footpath records with a valid length (not null or zero) and width (>0.7m and <20m, and not null), a known surface material and constructed/surface date. --Where owner type = "L".--Ref - AM-Fp1--------------------------------------------------------------------------------select count(footpath\_id) as valid\_fpinto #temp\_valid\_fpfrom footpathwhere asset\_owner = 'L'and width > 0.7 and width < 20and length\_m > 0and footpath\_surf\_mat is not nulland footpath\_surf\_mat not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN')and (constructed is not null or surface\_date is not null);select count(footpath\_id) as all\_fpinto #temp\_all\_fpfrom footpathwhere asset\_owner = 'L';select (cast(valid\_fp as decimal))/(cast(all\_fp as decimal)) \*100 as AM\_Fp1into #temp\_fpath\_1from #temp\_valid\_fp, #temp\_all\_fp;drop table #temp\_valid\_fp, #temp\_all\_fp;----------------------------------------------------------------------------------Footpath asset records maintained--Percentage of footpath length added within the last three financial years. --Where owner type = "L".--Ref - AM-Fp2--------------------------------------------------------------------------------select sum(length\_m) fp\_length\_addedinto #temp\_fp\_length\_addedfrom footpathwhere asset\_owner = 'L'and added\_on between ((select targetDate from #tempDate) - 1095) and (select targetDate from #tempDate);select sum(length\_m) fp\_length\_totinto #temp\_fp\_length\_totfrom footpathwhere asset\_owner = 'L';select (cast(fp\_length\_added as decimal))/(cast(fp\_length\_tot as decimal)) \*100 as AM\_Fp2into #temp\_fpath\_2from #temp\_fp\_length\_added, #temp\_fp\_length\_tot;drop table #temp\_fp\_length\_added, #temp\_fp\_length\_tot;----------------------------------------------------------------------------------Culvert assets known--Percentage of culvert records with a known length, size, material and constructed/surface date. --Where owner type = "L".--Ref - AM-Dr1--------------------------------------------------------------------------------select count(drainage\_id) as known\_culvertsinto #temp\_known\_culvertsfrom drainagewhere drain\_culvert is not nulland asset\_owner = 'L'and drain\_length is not nulland drain\_length > 0and drain\_size is not nulland drain\_size > 0and drain\_material is not nulland drain\_material not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN')and construct\_date is not null;select count(drainage\_id) as culvert\_recordsinto #temp\_culvert\_recordsfrom drainagewhere drain\_culvert is not nulland asset\_owner = 'L';select (cast(known\_culverts as decimal))/(cast(culvert\_records as decimal)) \*100 as AM\_Dr1into #temp\_drain\_1from #temp\_known\_culverts, #temp\_culvert\_records;drop table #temp\_known\_culverts, #temp\_culvert\_records;----------------------------------------------------------------------------------Culvert asset records maintained--Percentage of culvert length added within the last three financial years.--Where road\_type = "L" owner type = "L".--Ref - AM-Dr2--------------------------------------------------------------------------------select sum(d.drain\_length) as cul\_length\_addedinto #temp\_cul\_len\_addedfrom drainage dleft join carr\_way con d.road\_id = c.road\_idand d.carrway\_start\_m = c.carrway\_start\_mwhere d.drain\_culvert is not null and c.road\_id in (select road\_id from roadnames where road\_type = 'L') and owner\_type = 'L'and d.added\_on between ((select targetDate from #tempDate) - 1095) and (select targetDate from #tempDate);select sum(d.drain\_length) as cul\_length\_totinto #temp\_cul\_len\_totfrom drainage dleft join carr\_way con d.road\_id = c.road\_idand d.carrway\_start\_m = c.carrway\_start\_mwhere d.drain\_culvert is not null and c.road\_id in (select road\_id from roadnames where road\_type = 'L') and owner\_type = 'L'; select cast(cul\_length\_added as decimal)/cast(cul\_length\_tot as decimal)\*100 as AM\_Dr2into #temp\_drain\_2from #temp\_cul\_len\_added, #temp\_cul\_len\_tot;drop table #temp\_cul\_len\_added, #temp\_cul\_len\_tot;----------------------------------------------------------------------------------SWC asset known--Percentage of kerb and channel records with a recorded length (eg not Null or zero length), a known type and construction date.--Where owner type = "L" and swc type not 'SWCD' or 'SWCS'.--Ref - AM-SW1--------------------------------------------------------------------------------select count(sw\_channel\_id) as valid\_swcinto #temp\_recordedfrom sw\_channelwhere asset\_owner = 'L'and length\_m > 0and length\_m is not nulland swc\_type is not nulland swc\_type not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN') and swc\_type not in ('SWCD', 'SWCS')and constructed is not null;select count(sw\_channel\_id) as swc\_recordsinto #temp\_swc\_recordsfrom sw\_channelwhere asset\_owner = 'L'and swc\_type not in ('SWCD', 'SWCS');select (cast(valid\_swc as decimal))/(cast(swc\_records as decimal)) \*100 as AM\_SW1into #temp\_swc\_1from #temp\_recorded, #temp\_swc\_records;drop table #temp\_recorded, #temp\_swc\_records;----------------------------------------------------------------------------------SWC asset records maintained--Percentage of kerb and channel length added within the last three financial years. --Where owner type = "L" and swc type not 'SWCD' or 'SWCS'.--Ref - AM-SW2--------------------------------------------------------------------------------select sum(length\_m) as swc\_len\_addedinto #temp\_swc\_len\_addedfrom sw\_channelwhere asset\_owner = 'L'and swc\_type not in ('SWCD', 'SWCS')and added\_on between ((select targetDate from #tempDate) - 1095) and (select targetDate from #tempDate);select sum(length\_m) as swc\_len\_totinto #temp\_swc\_len\_totfrom sw\_channelwhere asset\_owner = 'L'and swc\_type not in ('SWCD', 'SWCS');select (cast(swc\_len\_added as decimal))/(cast(swc\_len\_tot as decimal)) \*100 as AM\_SW2into #temp\_swc\_2from #temp\_swc\_len\_added, #temp\_swc\_len\_tot;drop table #temp\_swc\_len\_added, #temp\_swc\_len\_tot;----------------------------------------------------------------------------------Sign asset known--Percentage of sign records with known dimensions, material and installation date--Where owner type = "L".--Ref - AM-Si1--------------------------------------------------------------------------------select count(sign\_id) known\_signsinto #temp\_known\_signsfrom sign swhere s.road\_id in (select road\_id from roadnames where road\_type = 'L')and replace\_date is nulland sign\_width > 0and sign\_height > 0and install\_date is not nulland (bground\_material is not null and bground\_material not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN'));select count(sign\_id) all\_signsinto #temp\_all\_signsfrom sign swhere s.road\_id in (select road\_id from roadnames where road\_type = 'L')and replace\_date is null;select (cast(known\_signs as decimal) / cast(all\_signs as decimal))\*100 as AM\_Si1into #temp\_signs\_1from #temp\_known\_signs, #temp\_all\_signs;drop table #temp\_known\_signs;----------------------------------------------------------------------------------Sign asset associated to a 'road'--Percentage of sign records within limits of roads (>= minimum carriageway start and <= maximum carriageway end) and with an offset less than 40m.--Where owner type = "L".--Ref - AM-Si2----------------------------------------------------------------------------------Find the minimum start and maximum end for each road in carr\_wayselect road\_id, min(carrway\_start\_m) min\_start, max(carrway\_end\_m) max\_endinto #tmp\_min\_maxfrom carr\_waywhere carr\_way.road\_id in (select road\_id from roadnames where road\_type = 'L')and carr\_way.owner\_type = 'L'group by carr\_way.road\_id;select count(\*) located\_signsinto #temp\_located\_signsfrom sign s join #tmp\_min\_max tm on (s.road\_id = tm.road\_id and (s.location >= tm.min\_start and s.location <= tm.max\_end))where s.road\_id in (select road\_id from roadnames where road\_type = 'L')and replace\_date is nulland offset < 40;select (cast(located\_signs as decimal) / cast(all\_signs as decimal))\*100 as AM\_Si2into #temp\_signs\_2from #temp\_located\_signs, #temp\_all\_signs;drop table #temp\_located\_signs, #tmp\_min\_max;----------------------------------------------------------------------------------Sign Renewal Activity in last 3 Financial Years--Percentage of sign records replaced during last three financial years.--Where road\_type = 'L'--Ref - AM-Si3--------------------------------------------------------------------------------select count(sign\_id) as replace\_sign into #temp\_replaced\_signsfrom sign swhere s.road\_id in (select road\_id from roadnames where road\_type = 'L')and replace\_date between ((select targetDate from #tempDate) - 1095) and (select targetDate from #tempDate);select (cast(replace\_sign as decimal)) / (cast(all\_signs as decimal)) \* 100 as AM\_Si3 --pc\_signs\_replacedinto #temp\_signs\_3from #temp\_replaced\_signs, #temp\_all\_signs;drop table #temp\_replaced\_signs, #temp\_all\_signs;----------------------------------------------------------------------------------Railing asset known--Percentage of railing records with a recorded length, type, material and installation date.--Where road type = "L"--Ref - AM-Ra1--------------------------------------------------------------------------------select count(railing\_id) known\_railingsinto #temp\_known\_railingsfrom railings rwhere r.road\_id in (select road\_id from roadnames where road\_type = 'L')and length\_m > 0and (railing\_type is not null and railing\_type not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN'))and (railing\_material is not null and railing\_material not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN'))and install\_date is not null;select count(railing\_id) all\_railingsinto #temp\_all\_railingsfrom railings rwhere r.road\_id in (select road\_id from roadnames where road\_type = 'L');select (cast(known\_railings as decimal) / cast(all\_railings as decimal))\*100 as AM\_Ra1 --pc\_known\_railingsinto #temp\_rail\_1from #temp\_known\_railings, #temp\_all\_railings;drop table #temp\_known\_railings, #temp\_all\_railings;----------------------------------------------------------------------------------Railing asset records maintained--Percentage of railing length added in the previous three financial years. --Where road type = "L"--Ref - AM-Ra2--------------------------------------------------------------------------------select sum(length\_m) as railing\_act into #temp\_railing\_actfrom railings rwhere r.road\_id in (select road\_id from roadnames where road\_type = 'L')and added\_on between ((select targetDate from #tempDate) - 1095) and (select targetDate from #tempDate);select sum(length\_m) as railing\_all into #temp\_railing\_allfrom railings rwhere r.road\_id in (select road\_id from roadnames where road\_type = 'L');select (cast(railing\_act as decimal)) / (cast(railing\_all as decimal)) \* 100 as AM\_Ra2 --pc\_railing\_addedinto #temp\_rail\_2from #temp\_railing\_act, #temp\_railing\_all;drop table #temp\_railing\_act, #temp\_railing\_all;----------------------------------------------------------------------------------Retaining Wall assets known--Percentage of railing records with a recorded length, average height, material and constructed date. --Where road type = "L"--Ref - AM-RW1--------------------------------------------------------------------------------select count(\*) known\_ret\_wallsinto #temp\_known\_ret\_wallsfrom retaining\_wall rwhere r.road\_id in (select road\_id from roadnames where road\_type = 'L')and length\_m > 0and height\_m\_avg > 0and (ret\_wall\_type is not null and ret\_wall\_type not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN'))and (ms\_material is not null and ms\_material not in ('U', 'UN', 'UK', 'UNK', 'UKN', 'UNKN'))and constructed is not null;select count(\*) all\_ret\_wallsinto #temp\_all\_ret\_wallsfrom retaining\_wall rwhere r.road\_id in (select road\_id from roadnames where road\_type = 'L');select (cast(known\_ret\_walls as decimal) / cast(all\_ret\_walls as decimal))\*100 as AM\_RW1 --pc\_known\_ret\_wallsinto #temp\_rwall\_1from #temp\_known\_ret\_walls, #temp\_all\_ret\_walls;drop table #temp\_known\_ret\_walls, #temp\_all\_ret\_walls;----------------------------------------------------------------------------------Retaining wall asset records maintained--Percentage of retaining wall length added in the previous five financial years. --Where road type = "L"--Ref - AM-RW2--------------------------------------------------------------------------------select sum(length\_m) as ret\_wall\_added into #temp\_ret\_wall\_addedfrom retaining\_wall rwhere r.road\_id in (select road\_id from roadnames where road\_type = 'L')and r.added\_on between ((select targetDate from #tempDate) - 1825) and (select targetDate from #tempDate);select sum(length\_m) as ret\_wall\_tot into #temp\_ret\_wall\_totfrom retaining\_wall rwhere r.road\_id in (select road\_id from roadnames where road\_type = 'L');select (cast(ret\_wall\_added as decimal)) / (cast(ret\_wall\_tot as decimal)) \* 100 as AM\_RW2 --pc\_ret\_wall\_addedinto #temp\_rwall\_2from #temp\_ret\_wall\_added, #temp\_ret\_wall\_tot;drop table #temp\_ret\_wall\_added, #temp\_ret\_wall\_tot;----------------------------------------------------------------------------------Streetlights associated with a 'road'--Percentage of streetlight pole records within limits of road (>= minimum carriageway start and <= maximum carriageway end) and an offset less than 40m.--Where road type = "L".--Ref - AM-SL1----------------------------------------------------------------------------------Find the minimum start and maximum end for each road in carr\_wayselect road\_id, min(carrway\_start\_m) min\_start, max(carrway\_end\_m) max\_endinto #temp\_min\_maxfrom carr\_waywhere carr\_way.road\_id in (select road\_id from roadnames where road\_type = 'L')and carr\_way.owner\_type = 'L'group by carr\_way.road\_id;Select count(\*) located\_poleinto #temp\_located\_polefrom sl\_pole s join #temp\_min\_max tm on (s.road\_id = tm.road\_id and (s.location >= tm.min\_start and s.location <= tm.max\_end))where s.road\_id in (select road\_id from roadnames where road\_type = 'L')and replace\_date is nulland offset < 40;Select count(\*) all\_poleinto #temp\_all\_polefrom sl\_pole swhere s.road\_id in (select road\_id from roadnames where road\_type = 'L')and replace\_date is null;select (cast(located\_pole as decimal)/cast(all\_pole as decimal))\*100 as AM\_SL1 --pc\_light\_on\_roadinto #temp\_sl\_1from #temp\_located\_pole, #temp\_all\_pole;drop table #temp\_min\_max, #temp\_located\_pole;----------------------------------------------------------------------------------Streetlights records have a light--Percentage of streetlight pole records with at least one light record. --Where road\_type = "L"--Ref - AM-SL2----------------------------------------------------------------------------------No poles with brackets with light select count(distinct p.pole\_id) as pole\_with\_lightinto #temp\_pole\_with\_lightfrom sl\_pole pjoin sl\_bracket bon p.pole\_id = b.pole\_idjoin sl\_light lon b.bracket\_id = l.bracket\_id  where p.road\_id in (select road\_id from roadnames where road\_type = 'L') and p.replace\_date is nulland b.replace\_date is nulland b.bracket\_id is not nulland l.light\_replace\_date is nulland l.light\_id is not null;select (cast(pole\_with\_light as decimal)/cast(all\_pole as decimal))\*100 as AM\_SL2 --pc\_sl\_pole\_with\_lightinto #temp\_sl\_2from #temp\_pole\_with\_light, #temp\_all\_pole;drop table #temp\_pole\_with\_light;----------------------------------------------------------------------------------Streetlight replacement activtiy--Percentage of streetlight poles replaced during the last three financial years.--Where road type = "L"--Ref - AM-SL3--------------------------------------------------------------------------------select count(pole\_id) replace\_pole into #temp\_replaced\_sl\_polesfrom sl\_pole pwhere p.road\_id in (select road\_id from roadnames where road\_type = 'L') and replace\_date between ((select targetDate from #tempDate) - 1095) and (select targetDate from #tempDate); select (cast(replace\_pole as decimal)/cast(all\_pole as decimal))\*100 as AM\_SL3 --pc\_pole\_replacedinto #temp\_sl\_3from #temp\_replaced\_sl\_poles, #temp\_all\_pole;drop table #temp\_replaced\_sl\_poles, #temp\_all\_pole;-- =============================================================================--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*MAINTENANCE ACTIVITY\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*-- =============================================================================----------------------------------------------------------------------------------Consistency of maintenance activity units--Average number of different units used per activity for reported financial year.--For pavement, surfacing, shoulder and drainage cost groups only.--Ref - AM-MA1--------------------------------------------------------------------------------select activity, count(distinct qty\_unit) as mc\_units into #temp\_mc\_unitsfrom mc\_costwhere cost\_group in ('PA', 'SU', 'SH', 'DR')and transaction\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate)group by activity;select avg(cast(mc\_units as decimal)) as AM\_MA1 --ave\_number\_unitsinto #temp\_mcost\_1from #temp\_mc\_units;drop table #temp\_mc\_units;----------------------------------------------------------------------------------Maintenance activity known--Percentage of records with a known fault type in reported financial year (ie not "unknown")--For pavement, surfacing, shoulder and drainage cost groups only.--Where road type = "L"--Ref - AM-MA2--------------------------------------------------------------------------------select count(transaction\_id) as known\_faultinto #temp\_known\_faultfrom mc\_cost mcwhere mc.road\_id in (select road\_id from roadnames where road\_type = 'L')and cost\_group in ('PA', 'SU', 'SH', 'DR')and transaction\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate)and fault <> 'UNKNOWN' and fault is not null;select count(transaction\_id) as tot\_recordsinto #temp\_tot\_recordsfrom mc\_cost mcwhere mc.road\_id in (select road\_id from roadnames where road\_type = 'L')and cost\_group in ('PA', 'SU', 'SH', 'DR')and transaction\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate);select (cast(known\_fault as decimal))/(cast(tot\_records as decimal)) \*100 as AM\_MA2 --pc\_known\_faultinto #temp\_mcost\_2from #temp\_known\_fault, #temp\_tot\_records;drop table #temp\_known\_fault;----------------------------------------------------------------------------------Correctly located maintenance activity--Percentage of records recorded at appropriate location for all cost groups (percentage of records not at the start of the carriageway) for reported financial year.--Where road\_type = "L"--Ref - AM-MA3----------------------------------------------------------------------------------Select all recordsselect count(transaction\_id) as total\_recordsinto #temp\_total\_recordsfrom carr\_wayjoin mc\_cost on (carr\_way.road\_id = mc\_cost.road\_id)where (start\_m >= carr\_way.carrway\_start\_m  and start\_m < carr\_way.carrway\_end\_m)and cost\_group in ('SH', 'DR')and carr\_way.road\_id in (select road\_id from roadnames where road\_type = 'L')and transaction\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate);--Select records at not at road startselect count(transaction\_id) as records\_not\_startinto #temp\_records\_not\_startfrom carr\_wayjoin mc\_cost on (carr\_way.road\_id = mc\_cost.road\_id)where (start\_m >= carr\_way.carrway\_start\_m  and start\_m < carr\_way.carrway\_end\_m)and cost\_group in ('SH', 'DR')and carr\_way.road\_id in (select road\_id from roadnames where road\_type = 'L')and start\_m > (select min(carrway\_start\_m) from carr\_way where carr\_way.road\_id = mc\_cost.road\_id)and transaction\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate);--Express as % of records not at road startselect (cast(records\_not\_start as decimal))/(cast(total\_records as decimal)) \*100 as AM\_MA3 --pc\_not\_at\_startinto #temp\_mcost\_3from #temp\_records\_not\_start, #temp\_total\_records;drop table #temp\_records\_not\_start, #temp\_total\_records;----------------------------------------------------------------------------------Level of maintenance activity known--Percentage of records with a known quantity (eg not null or zero or -ve) for reported financial year.--For pavement, surfacing, shoulder and drainage cost groups only--Ref - AM-MA4--------------------------------------------------------------------------------select count(transaction\_id) as known\_qtyinto #temp\_known\_qtyfrom mc\_cost mcwhere mc.road\_id in (select road\_id from roadnames where road\_type = 'L')and cost\_group in ('PA', 'SU', 'SH', 'DR')and (quantity > 0 or adj\_quantity >0)and transaction\_date between ((select targetDate from #tempDate) - 364) and (select targetDate from #tempDate);select (cast(known\_qty as decimal))/(cast(tot\_records as decimal)) \*100 as AM\_MA4 --pc\_known\_qtyinto #temp\_mcost\_4from #temp\_known\_qty, #temp\_tot\_records;drop table #temp\_known\_qty, #temp\_tot\_records;-- =============================================================================--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*CONDITION\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*-- =============================================================================----------------------------------------------------------------------------------Rating data current--Percentage of rating data records less than 2 years old at end of reported financial year--Where road type = "L" and latest = "L".--Ref - AM-Co1----------------------------------------------------------------------------------Select total sealed network lengthselect sum(t.tl\_length\_m) as total\_lgthinto #temp\_total\_lgthfrom treatment\_length t where t.pavement\_type in ('T', 'S', 'C') and t.tl\_disabled = 'N' and t.road\_id in (select road\_id from roadnames where road\_type = 'L'); --Select sealed network length with rating reading less than 2 years old select sum(r.end\_m - r.start\_m) as m\_ratinginto #temp\_m\_temp\_ratingfrom rating rleft join treatment\_length ton r.road\_id = t.road\_idand r.start\_m >= t.tl\_start\_mand r.start\_m < t.tl\_end\_m where t.pavement\_type in ('T', 'S', 'C') and t.tl\_disabled = 'N' and t.road\_id in (select road\_id from roadnames where road\_type = 'L') and rating\_date >= ((select targetDate from #tempDate) - 729)  and latest = 'L';update #temp\_m\_temp\_rating set m\_rating = 0 where m\_rating is null;--Express as % network length with recent(2 years) rating readingselect (cast(m\_rating as decimal)) / (cast(total\_lgth as decimal)) \* 100 as AM\_Co1 --pc\_rating\_recentinto #temp\_cond\_1from #temp\_m\_temp\_rating, #temp\_total\_lgth;drop table #temp\_m\_temp\_rating, #temp\_total\_lgth;----------------------------------------------------------------------------------Latest rating data locations valid--Percentage of latest rating records with a valid inspection section--(inspection start >= rating start and start of road, inspection end <= rating end and end of road)--Ref - AM-Co2----------------------------------------------------------------------------------Find the minimum start and maximum end for each road in carr\_wayselect road\_id, min(carrway\_start\_m) min\_start, max(carrway\_end\_m) max\_endinto #tmp\_min\_maxfrom carr\_waywhere carr\_way.road\_id in (select road\_id from roadnames where road\_type = 'L')and carr\_way.owner\_type = 'L'group by carr\_way.road\_id;select count(\*) as valid\_ratinginto #temp\_rating\_validfrom rating rjoin #tmp\_min\_max tm on (r.road\_id = tm.road\_id and (r.insp\_start\_m >= tm.min\_start and r.insp\_end\_m <= tm.max\_end))where r.latest = 'L'and rating\_date between ((select targetDate from #tempDate) - 729) and (select targetDate from #tempDate)and (r.insp\_start\_m >= r.start\_m and r.insp\_start\_m < r.end\_m)and (r.insp\_end\_m > r.start\_m and r.insp\_end\_m <= r.end\_m) --and t.pavement\_type in ('T', 'S', 'C') and r.road\_id in (select road\_id from roadnames where road\_type = 'L');select count(\*) as tls\_ratinginto #temp\_rating\_totfrom rating rwhere r.latest = 'L'and rating\_date between ((select targetDate from #tempDate) - 729) and (select targetDate from #tempDate) --and t.pavement\_type in ('T', 'S', 'C') and r.road\_id in (select road\_id from roadnames where road\_type = 'L');  drop table #tmp\_min\_max;select (cast(valid\_rating as decimal)) / (cast(tls\_rating as decimal)) \*100 as AM\_Co2 --pc\_rating\_location\_validinto #temp\_cond\_2from #temp\_rating\_valid, #temp\_rating\_tot;drop table #temp\_rating\_valid, #temp\_rating\_tot;-- =============================================================================--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*RESULTS\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*-- =============================================================================--Publish resultsselect \*from #temp\_cway\_1, #temp\_cway\_2, #temp\_cway\_3,#temp\_treat\_1,#temp\_surf\_1a, #temp\_surf\_1b, #temp\_surf\_2,#temp\_pave\_1, #temp\_pave\_2, #temp\_pave\_3,#temp\_fpath\_1, #temp\_fpath\_2,#temp\_drain\_1, #temp\_drain\_2,#temp\_swc\_1, #temp\_swc\_2,#temp\_signs\_1, #temp\_signs\_2, #temp\_signs\_3,#temp\_rail\_1, #temp\_rail\_2,#temp\_rwall\_1, #temp\_rwall\_2,#temp\_sl\_1, #temp\_sl\_2, #temp\_sl\_3,#temp\_mcost\_1, #temp\_mcost\_2, #temp\_mcost\_3, #temp\_mcost\_4,#temp\_cond\_1, #temp\_cond\_2;drop table #temp\_cway\_1, #temp\_cway\_2, #temp\_cway\_3,#temp\_treat\_1,#temp\_surf\_1a, #temp\_surf\_1b, #temp\_surf\_2,#temp\_pave\_1, #temp\_pave\_2, #temp\_pave\_3,#temp\_fpath\_1, #temp\_fpath\_2,#temp\_drain\_1, #temp\_drain\_2,#temp\_swc\_1, #temp\_swc\_2,#temp\_signs\_1, #temp\_signs\_2, #temp\_signs\_3,#temp\_rail\_1, #temp\_rail\_2,#temp\_rwall\_1, #temp\_rwall\_2,#temp\_sl\_1, #temp\_sl\_2, #temp\_sl\_3,#temp\_mcost\_1, #temp\_mcost\_2, #temp\_mcost\_3, #temp\_mcost\_4,#temp\_cond\_1, #temp\_cond\_2;drop table #tempDate; |