Capacity Questions (Based on Leased Space): Needed to construct the following Metrics:

1. Before many of the Military Value metrics for the MAH activities can be constructed, it is first necessary to extract the total amount of Leased, temporary, or owned administrative space (GSF and USF) from the Capacity Analysis Database (CAD).
    a. The following metrics from the MAH Military Value model rely on accurate, repeatable extraction of the Square Footage data in the CAD:
        i. Criterion 2, Attribute 2, Metric 1
        ii. Criterion 2, Attribute 2, Metric 2
        iii. Criterion 2, Attribute 2, Metric 3
        iv. Criterion 2, Attribute 3, Metric 1
    b. The methodology used to extract the data from the various data sources in the CAD is the same for all of the above metrics.
2. The many differences in the various questions that contain the leased, temporary, or owned space square footages, necessitate pulling the data using a distinct target list for each Military Department (including a "4th Estate").
    a. Army—The Army poses difficulties because of the large amount of data that is not present in the CAD. This missing data was supplied to the HSA-JCSG by the Army LNO in the form of "NonOdin" spreadsheets.
        i. For the Army, the following data sources were used to obtain the square footages for leased, temporary, or owned space.
            1. DoD #462 (NonOdin)—for Leased Space in the NCR. Instructions from the Army LNO were to use this data to supplant all earlier data including that which may have found its way into the CAD
            2. DoD #303 (CAD and NonOdin)—For Owned Space inside and outside the NCR
            3. Dod #311 (NonOdin)—For Leased Space outside the NCR. Instructions from the Army LNO were to use this data to supplant all earlier data including that which may have been entered into the CAD.
        ii. The Army's target list is composed of all the activities identified by the MAH subject matter experts that are owned or run by the U.S. Army. Each activity can contain any number of subactivities and/or buildings (i.e. ACSIM does not report just once, but reports for each of its buildings in the NCR). This target list contains the following columns of data:
            1. OrgCode
            2. OrgName
            3. Subactivity
            4. Street Address
            5. UIC
            6. Source
            7. Building Number

8. Leased or Owned Identifier

iii. Extraction of this data is accomplished in four separate steps:
1. Match the Target List to the table constructed from the Army's NonOdin responses for Question 462 using the OrgName and Subactivity as the matching fields and selecting only the Leased entities. Create a basic table from this information (make-table Query)
2. Match the Target List to the Army's NonOdin version of Question 311, using OrgName as the only joining Field. Append this data to the table output in step 1 (Append Query)
3. Match the Target List to the CAD-version of DoD #303 using OrgCode, Street Address, UIC, and Building Number as the joining fields, selecting only those entities that are owned. Append this data to the table output in Step 1.
4. Match the Target List to the Army's NonOdin version of Question #303 using OrgCode, Street Address, and UIC, selecting only those entities that provided information in the Square Footage Field (do not select the null entries). Append this data to the table output in Step 1.

iv. Once the data is extracted, the Output table must be matched to the Target List to eliminate any duplicates or irrelevant records that may have been generated in the process of extraction. The following actions were taken to refine the raw output into data usable by the SME's:
1. All entities with duplicate records were refined by deleting all the confirmed duplicates.
2. SMDC—Total 3 locations up into 1 record (to match Army's NonOdin Target List)
3. ATEC—Delete a redundant record. Was a duplicate record, but the response in the MAD was "-" making it somewhat different.
4. PEO STRICOM—Total 3 Locations up into 1 record (to match Army's NonOdin Target List) and delete a duplicate total record

b. Air Force—The Air Force poses a challenge because it was the only service to answer using DoD #4076. This question does not contain street addresses when it is extracted from the CAD. The analyst must combine question 4076 with DoD #4075 and match up the separate activities with their appropriate street address to obtain a version of question 4076 that can be matched to the Air Force Target List

i. For the Air Force, use the following questions to extract square footage from the CAD:
1. DoD #4076
2. DoD #4075—To match addresses to #4076

3. DoD

ii. The Air Force's target list is composed of all the activities identified by the MAH subject matter experts that are owned or run by the U.S. Air Force. Each activity can contain any number of subactivities and/or buildings (i.e. SAF/AG does not report just once, but reports for each of its buildings in the NCR). This target list contains the following columns of data:
   1. OrgCode
   2. OrgName
   3. Street Address
   4. UIC
   5. Source
   6. Owned or Leased Identifier

iii. Extraction of the Data is accomplished in 2 separate steps:
   1. Match the Target List to DoD #462 using OrgCode and Street Address, selecting only the leased entities. Make a table from this query to serve as the primary document.
   2. Match the Target List to DoD #4076 using OrgCode, Street Address, and UIC, selecting everything but the Leased entities. Append this data to the output created in Step 1.

iv. Once the data is extracted, the Output table must be matched to the Target List to eliminate any duplicates or irrelevant records that may have been generated in the process of extraction. The following actions were taken to refine the raw output into data usable by the SME's:
   1. AF Personnel Operations Agency (AFPOA)—Add another entry to the output to match the Air Force Target List
   2. 11th Wing—Entry with address 204 Brookley and Activity Name "HQ AF" as well as another blank entry deleted.

c. Navy

i. For the Navy, use the following questions to extract data from the CAD:
   1. DoD #462
   2. DoD #303
   3. DoD #311

ii. The Navy's target list is composed of all the activities identified by the MAH subject matter experts that are owned or run by the U.S. Navy. Each activity can contain any number of subactivities and/or buildings (i.e. SECNAV_WASHINGTON_DC does not report just once, but reports for each of its buildings in the NCR). This target list contains the following columns of data:
   1. OrgCode
   2. OrgName
   3. Street Address
   4. UIC
   5. Source

6. Owned or Leased Identifier

iii. Extraction of the Navy's data is accomplished in 3 separate steps:
1. Match the Target List to DoD #303 using Street Address, OrgCode, and UIC as joining fields, selecting everything but the entities marked as Leased. Make a table from this query to serve as the primary document.
2. Match the Target List to DoD #462 using OrgCode and Street Address as joining fields, selecting everything but the entities marked as Owned. Append this data to the output created in Step 1.
3. Check to see if there is any data from DoD #311 by matching the target List to this data using OrgCode and Street address as joining fields. Nothing useful comes from this query.

iv. Once the data is extracted, the Output table must be matched to the Target List to eliminate any duplicates or irrelevant records that may have been generated in the process of extraction. The following actions were taken to refine the raw output into data usable by the SME's:
1. Naval District Washington—For 8901 Wisconsin Blvd address, the entries with Building Names "Child Development Center" and "Fitness Center", were deleted because they were not administrative space.
2. NAWC PAX RIVER—Two entries must be inserted into output file to match the target list (these two entries did not have reported addresses to match in the queries).

d. 4th Estate

i. For the 4th Estate, use the following questions to extract data from the CAD:
1. DoD #301
2. DoD #311
3. DoD #462
4. DoD #463

ii. The 4th Estate target list is composed of all the activities identified by the MAH subject matter experts that are owned or run by a 4th Estate activity. Each activity can contain any number of subactivities and/or buildings (i.e. DTRA does not report just once, but reports for each of its buildings inside or outside the NCR). This target list contains the following columns of data:
1. OrgCode
2. OrgName
3. Street Address
4. Source
5. Owned or Leased Identifier

iii. Extraction of the 4th Estate's data is accomplished in 5 separate steps:

1. Match the 4th Estate target list to DoD #462 using OrgCode and Street Address as joining fields. Use the output from this query to make a new table to serve as the primary document for the data.
2. Match the 4th Estate target list to DoD #463 using OrgCode and Street Address as the joining fields. Append this data to the table created in Step 1.
3. Match the 4th Estate target list to DoD #311 using OrgCode and Street Address as the joining fields. Append this data to the table created in Step 1.
4. Match the 4th Estate target list to DoD #301 using OrgCode and Street Address as the joining fields. Append this data to the table created in Stetp 1.
5. Use a delete query to delete blank and/or redundant records from the Output table constructed in Step 1.

iv. Once the data is extracted, the Output table must be matched to the Target List to eliminate any duplicates or irrelevant records that may have been generated in the process of extraction. The following actions were taken to refine the raw output into data usable by the SME's:

1. DCMA—An entry for 6359 Walker Lane must be added to the output file (Not in database)
2. DFAS—For OrgCode 11CDZZ must sum up the square footages for 1111 E. Mill St.
    a. For OrgCode 13CDZZ, the site on Texas Avenue should correspond to OrgCode 74CDZZ.
    b. For OrgCode 59CDZZ, must sum up the square footages for 3990 East Broad St.
3. DHRA—Duplicate record for 1555 Wilson Blvd deleted
4. DISA—Sum up the square footages for 5450 Carlisle Pike (Five buildings) and 2743 Defense Blvd SW (2 Buildings) to match the entries in the Target List.
5. DTRA—Delete the duplicate records that are identified as Leased for 8725 John J. Kingman Road. Leased space shouldn't have answered for this, as it is on Ft. Belvoir.
6. MDA—Sum up the two records for Aberdeen Ave SW (MDA05 OrgCode)