~~Personal Insurance, Inc.~~

Shelly Cashman Access 2019 | Module 10: SAM Project 1a



~~Using SQL~~

# ~~GETTING STARTED~~

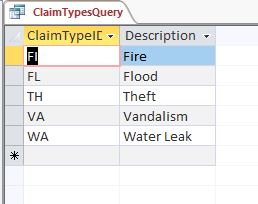
* ~~Open the file~~ **~~SC\_AC19\_10a\_~~*~~FirstLastName~~*~~\_1.accdb~~**~~, available for download from the SAM website.~~
* ~~Save the file as~~ **~~SC\_AC19\_10a\_~~*~~FirstLastName~~*~~\_2.accdb~~** ~~by changing the “1” to a “2”.~~

~~If you do not see the .accdb file extension in the Save As dialog box, do not type it. The program will add the file extension for you automatically.~~

* ~~Open the~~ **~~\_GradingInfoTable~~** ~~table and ensure that your first and last name is displayed as the first record in the table. If the table does not contain your name, delete the file and download a new copy from the SAM website.~~
* ~~Special Note: SQL Queries  
    
  To ensure accurate grading in this project, use the conventions listed below when writing your SQL commands:~~· Do not enclose field names and table names in square brackets **[]** when creating and modifying these SQL queries. All field names and table names consist of single words and do not require brackets.  
  · Use parentheses **()** in your SQL code only when specified.  
  · All SQL commands should end with a semicolon **(;)**.  
  · Only modify the aspects of the SQL commands that are specified in the assignment steps.
* ~~PROJECT STEPS~~

1. ~~Personal Insurance, Inc. is a national company that insures homeowners and renters. As a regional manager, you need to be able to use the extended management capabilities available through SQL. Create a new query in SQL View based on the~~ *~~ClaimTypes~~* ~~table with the following requirements:~~
   1. ~~Add all fields from the~~ *~~ClaimTypes~~* ~~table to the new query using the~~ **~~asterisk (\*)~~** ~~in the SELECT clause.~~
   2. ~~Be sure to end the SQL command with a~~ **~~semicolon (;)~~**~~.~~
   3. ~~Run the query to produce the results shown in Figure 1.~~
   4. ~~Save the query using~~ **~~ClaimTypesQuery~~** ~~as the query name and then close the query.~~

* ~~Figure 1: ClaimTypesQuery Results~~

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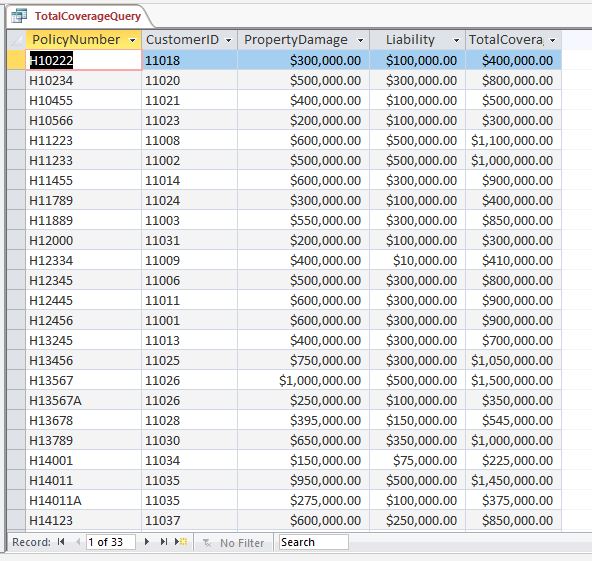
1. ~~Open the~~ *~~ClaimsRepQuery~~* ~~in SQL View, and then add the~~ *~~LastName~~* ~~field to the SELECT clause after the~~ *~~FirstName~~* ~~field. Run the query and confirm that the results match those shown in Figure 2. Save and close the~~ *~~ClaimsRepQuery~~*~~.~~

* ~~Figure 2: ClaimsRepQuery Results~~

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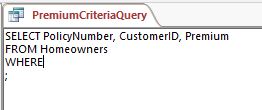
1. ~~Open the~~ *~~TotalCoverageQuery~~* ~~in SQL View. Add a computed field to the SELECT clause (after the~~ *~~Liability~~* ~~field) as described below:~~
   1. ~~The computed field should calculate the total coverage for the insurance policy by adding the~~ *~~Liability~~* ~~and the~~ *~~PropertyDamage~~* ~~field values. (~~*~~Hint:~~* ~~Enter~~ **~~Liability + PropertyDamage~~** ~~as the computation.)~~
   2. ~~Use~~ **~~TotalCoverage~~** ~~as the name (alias) for this computed field. (Hint: Use the~~ **~~AS~~** ~~clause.)~~
   3. ~~Run the query and confirm that the results match those shown in Figure 3. (~~*~~Hint:~~* ~~Your records may be in a different order. Only a portion of the query results is shown in Figure 3.)   
      Save and close the~~ *~~TotalCoverageQuery~~*~~.~~

* ~~Figure 3: Portion of TotalCoverageQuery Results~~

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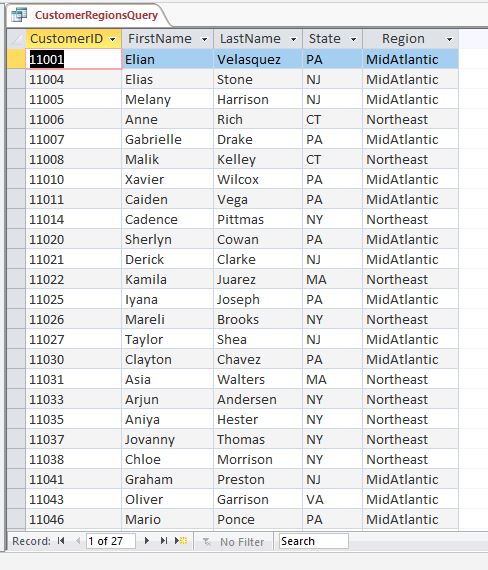
1. ~~Open the~~ *~~PremiumCriteriaQuery~~* ~~in SQL View. Add a~~ **~~WHERE~~** ~~clause to the query in the position shown in Figure 4 that restricts retrieval to only those policies where the~~ **~~premium is greater than 2000~~**~~. (~~*~~Hint:~~* ~~Figure 4 demonstrates the proper location for the WHERE clause, but it does not show the criteria that should be included in the WHERE clause.) Run the query, and check your results to confirm that eight records meet the criteria. Save and close the~~ *~~PremiumCritieraQuery~~*~~.~~

* ~~Figure 4: PremiumCriteriaQuery in SQL View~~

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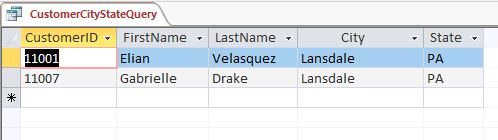
1. ~~Open the~~ *~~CustomerRegionsQuery~~* ~~in SQL View. Add an~~ **~~OR~~** ~~clause to the WHERE clause in the query so that the query retrieves only those records in which the~~ *~~Region~~* ~~field is equal to~~ **~~Northeast~~** ~~or~~ **~~MidAtlantic~~**~~. (~~*~~Hint:~~* ~~Currently, the query only retrieves records where the~~ *~~Region~~* ~~field is equal to Northeast.) Run the query and ensure that the results match those shown in Figure 5. (~~*~~Hint:~~* ~~Your records may be in a different order. Only a portion of the query results is shown in Figure 5.) Save and close the~~ *~~CustomerRegionsQuery~~*~~.~~

* ~~Figure 5: Portion of CustomerRegionsQuery~~

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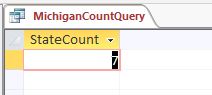
1. ~~Open the~~ *~~CustomerCityStateQuery~~* ~~in SQL View. Add an~~ **~~AND~~** ~~clause to the WHERE clause in the query so that the query retrieves only those records in which the~~ *~~State~~* ~~field is equal to~~ **~~PA~~** ~~and the~~ *~~City~~* ~~field is equal to~~ **~~Lansdale~~**~~. (~~*~~Hint:~~* ~~Currently, the query only retrieves records in which the~~ *~~State~~* ~~field is equal to PA.) Run the query, then confirm that the results match those shown in Figure 6. Save and close the~~ *~~CustomerCityStateQuery~~*~~.~~

* ~~Figure 6: CustomerCityStateQuery Results~~

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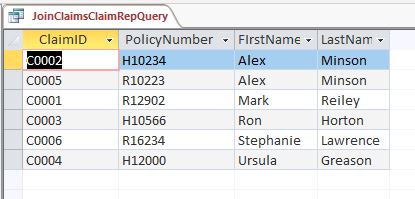
1. ~~Open the~~ *~~MichiganCountQuery~~* ~~in SQL View. Modify the SELECT clause to count the number of customers that are located in~~ **~~MI~~**~~. (~~*~~Hint:~~* ~~Change the SELECT clause to~~ **~~COUNT(CustomerID)~~**~~. Use the~~ **~~AS~~** ~~clause to set the alias of the function result to~~ **~~StateCount~~**~~. Run the query and confirm that the results match those shown in Figure 7. Save and close the~~ *~~MichiganCountQuery~~*~~.~~

* ~~Figure 7: MichiganCountQuery Results~~

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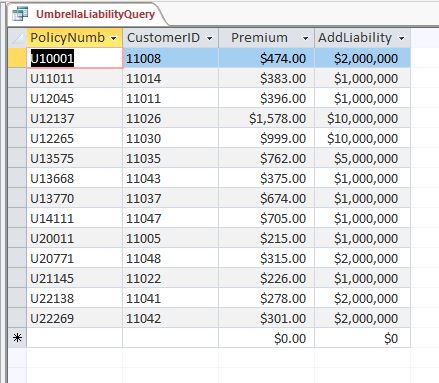
1. ~~Open the~~ *~~JoinClaimsClaimRepQuery~~* ~~in SQL View. Add a~~ **~~WHERE~~** ~~clause that joins the~~ *~~Claims~~* ~~table and the~~ *~~ClaimsRep~~* ~~table. The common field in both tables is~~ *~~ClaimRepNumber~~*~~. You will need to qualify the~~ *~~ClaimRepNumber~~* ~~field in the WHERE clause. Run the query, and confirm that the results match those shown in Figure 8. (~~*~~Hint:~~* ~~Your records may be in a different order.) Save and close the query.~~

* ~~Figure 8: JoinClaimsClaimRepQuery~~

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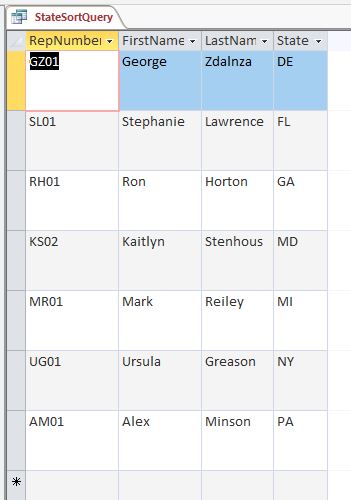
1. ~~Open the~~ *~~UmbrellaLiabilityQuery~~* ~~in SQL View. Add a caption to the~~ *~~Coverage~~* ~~field in the SELECT clause. (~~*~~Hint:~~* ~~Use the AS clause.) Use~~ **~~AddLiability~~** ~~as the caption for the~~ *~~Coverage~~* ~~field. Run the query, and confirm that the last field in the query displays as~~ *~~AddLiability~~*~~, as shown in Figure 9. Save and close the~~ *~~UmbrellaLiabilityQuery.~~*

* ~~Figure 9: UmbrellaLiabilityQuery Results~~

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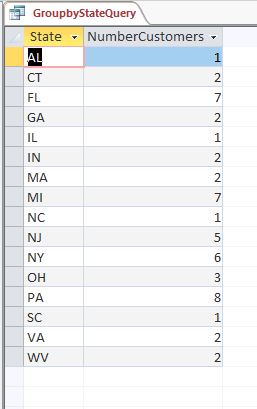
1. ~~Open the~~ *~~StateSortQuery~~* ~~in SQL View. Modify the query to sort the records in~~ **~~ascending~~** ~~order by the~~ *~~State~~* ~~field. (~~*~~Hint:~~* ~~Use the~~ **~~ORDER BY~~** ~~clause.) Run the query and confirm that the results match those shown in Figure 10. Save and close the~~ *~~StateSortQuery~~*~~.~~

* ~~Figure 10: StateSortQuery Results~~

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1. ~~Open the~~ *~~GroupbyStateQuery~~* ~~in SQL View. Modify the query by completing the following tasks:~~
   1. ~~Add the~~ *~~State~~* ~~field to the~~ **~~SELECT~~** ~~statement. The~~ *~~State~~* ~~field should appear before the COUNT(CustomerID) function.~~
   2. **~~Group~~** ~~the records by the~~ *~~State~~* ~~field.~~
   3. **~~Sort~~** ~~the records by the~~ *~~State~~* ~~field in~~ **~~ascending~~** ~~order.  
        
      Run the query and confirm that the results match those shown in Figure 11. Save and close the~~ *~~GroupbyStateQuery~~*~~.~~

* ~~Figure 11: GroupbyStateQuery Results~~

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1. ~~Open the~~ *~~MidAtlanticSortQuery~~* ~~in SQL View. Modify the query to sort the records first in~~ **~~descending~~** ~~order by the~~ *~~State~~* ~~field, and then in~~ **~~ascending~~** ~~order by the~~ *~~City~~* ~~field. (~~*~~Hint:~~* ~~Use the~~ **~~ORDER BY~~** ~~clause.) Run the query, and confirm that the results match those shown in Figure 12. Save and close the~~ *~~MidAtlanticSortQuery~~*~~.~~

* ~~Figure 12: MidAtlanticSortQuery Results~~

~~![The figure shows the MidAtlanticSortQuery results. Query results are sorted in descending order by state and ascending order by city. The first record has Bluefield as the city and WV as the state. The last record has Somerset as the city and NJ as the state.

](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDoRXhpZgAATU0AKgAAAAgABAE7AAIAAAAKAAAISodpAAQAAAABAAAIVJydAAEAAAAUAAAQzOocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAE1hcnkgTGFzdAAABZADAAIAAAAUAAAQopAEAAIAAAAUAAAQtpKRAAIAAAADNjMAAJKSAAIAAAADNjMAAOocAAcAAAgMAAAIlgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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