Utah Code [63J-1-903](https://le.utah.gov/xcode/Title63J/Chapter1/63J-1-S903.html) requires state agencies to report the status of funded appropriations requests. Legislators want to know the final cost, date of implementation, and outcomes related to these budget increases. The Legislative Fiscal Analyst’s Office (LFA) maintains data about the funding items, including names, descriptions, and funded amounts. The Governor’s Office has data on final cost, implementation date, and performance metrics. LFA would like to review the agency reports and provide the Legislature with recommendations for improvement.

The following is a list of tables and data fields available in various data sources. Using these data elements, describe in a memo to the Lead Technologist how you would create a report that meets the requirements legislators included in [statute](https://le.utah.gov/xcode/Title63J/Chapter1/63J-1-S903.html). We do not expect you to create the report, just tell us how you would go about doing so. How would you join the data? What technologies would you use? What data might be missing and how would you collect it? What tables would you need to build and how would you structure them? Assuming you collect all the data you need, please include in your memo a SQL string creating a single query to drive your report.

List of Follow-up Items

|  |  |  |  |
| --- | --- | --- | --- |
| **PerformanceFollowupIndex** | | | |
| Field Name | Field Type | Primary Key | Field Description |
| performanceMeasureAgency | Short Text |  | Agency associated with the performance measure |
| performanceMeasureId | Number |  | Unique ID of performance measure |
| performanceMeasureName | Short Text |  | Performance measure name |
| performanceMeasureDescription | Memo |  | Performance measure description |
| fundingItemName | Short Text |  | Name of LFA funding item (may not be exact match) |
| fundingItemSession | Short Text |  | Session of funding item |
| appropriatedFundingSource | Short Text |  | Source of funding for appropriation |
| appropriatedAmount | Number |  | Amount appropriated (may not be exact match) |

Legislative Fiscal Analyst Data Tables

|  |  |  |  |
| --- | --- | --- | --- |
| **FundingItemDetails** | | | |
| Field Name | Field Type | Primary Key | Field Description |
| fundingItemId | Number | x | Unique ID for funding item |
| fundingItemName | Short Text |  | Name of the funding item |
| itemDescription | Memo |  | Description of funding item |
| session | Short Text |  | Session in which the funding item was requested |
|  |  |  |  |
|  |  |  |  |
| **Appropriations** | | | |
| Field Name | Field Type | Primary Key | Field Description |
| appropriationId | Number | x | Unique ID for appropriation |
| session | Short Text |  | Session of appropriation |
| agency | Short Text |  | Agency receiving appropriation |
| fundingItemId | Number |  | Funding item associated with appropriation |
| fundingSource | Short Text |  | Source of funding for appropriation |
| fiscalYear | Number |  | Fiscal year of the appropriation |
| amount | Number |  | Amount appropriated |

Governor’s Office Data Tables

|  |  |  |  |
| --- | --- | --- | --- |
| **PerformanceMeasures** | | | |
| Field Name | Field Type | Primary Key | Field Description |
| performanceMeasureId | Number | x | Unique ID of performance measure |
| performanceMeasureAgency | Short Text |  | Agency associated with the performance measure |
| performanceMeasureName | Short Text |  | Performance measure name |
| performanceMeasureDescription | Memo |  | Performance measure description |
| measure\_format | Short Text |  | Type of measure. Can be "%", "#", "$", or "text" |
| measure\_target | Short Text |  | Ultimate target for measure |
| measure\_target\_description | Memo |  | Description of measure target |
|  |  |  |  |
|  |  |  |  |
| **PerformanceMeasuresDetailEntry** | | | |
| Field Name | Field Type | Primary Key | Field Description |
| performanceMeasureDetailId | Number | x | Unique entry ID |
| performanceMeasureId | Number |  | Unique ID of performance measure |
| reportFiscalYear | Number |  | Fiscal year for entry |
| measureValue | Short Text |  | Measure value for entry |
| measureTarget | Short Text |  | Measure value for entry |
| implementationDate | Date |  | Implementation date for entry |
| amountSpent | Number |  | Amount spent for entry |