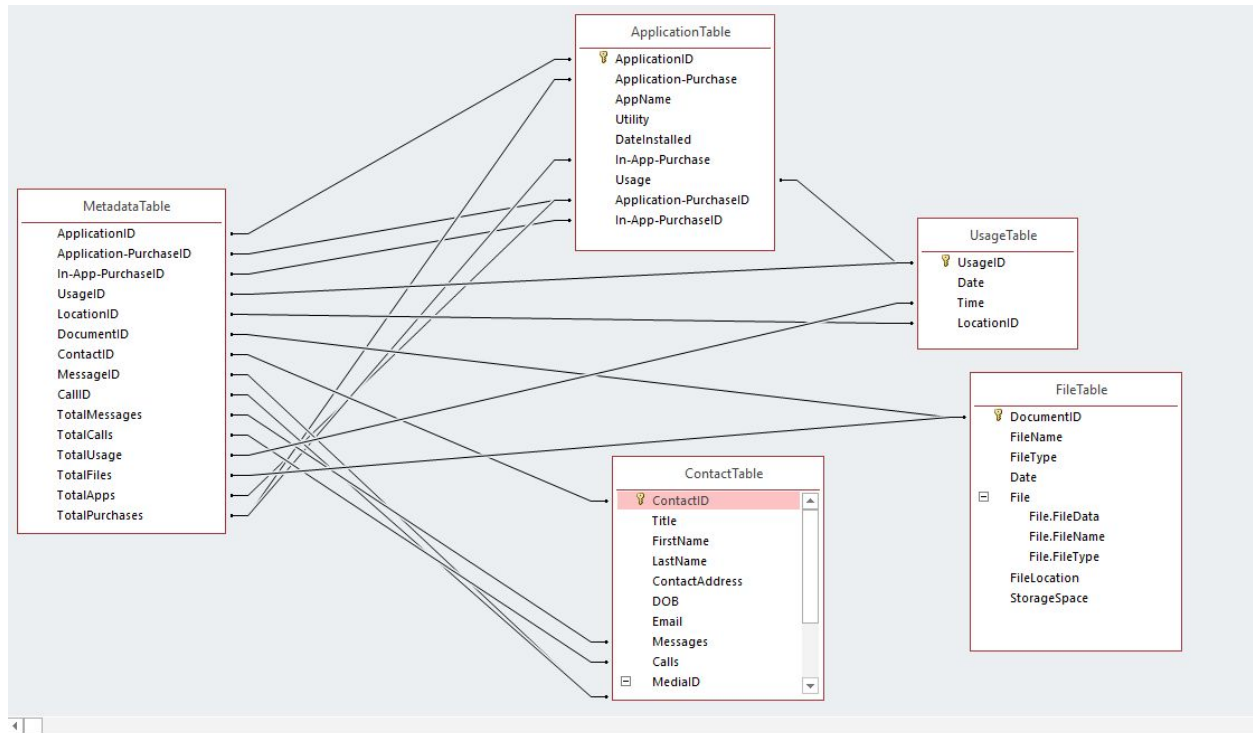


Device Data Relational Databank:

The “Device Data” databank consists of 5 tables:

1. Applications = “ApplicationTable”, contains all variables regarding applications on device
2. Contacts = “ContactTable”, contains all variables regarding contacts on device
3. Files = “FileTable”, contains all variables regarding files & documents stored on device
4. Usage = “UsageTable”, contains variables regarding device usage recorded by device
5. Metadata = “MetadataTable”, unifies the collection of these finer data points into a larger repository of sub-categorical data collected from and on the device

The primary keys within the database are “ApplicationID”, “UsageID”, “DocumentID”, and “ContactID”, each found in their respectable tables. The Metadata table contains no primary key at this time, in order to ensure referential integrity going forward in unifying all 4 tables and serving as the “data dump” and middleman for references and relationships within the database (it is hierarchically unnecessary to include one currently). The tables and their relationships are pictured below:



*due to the characteristics of the data and duplicity of so many variables in this database (particularly with primary keys), the relationships between the tables have not been identified one to one, one to many, or many to many but instead left undefined. This should not jeopardize referential integrity at this point in development and all datapoints should be appropriately referenced amongst each table (no discretion currently necessary). Ultimately, the primary keys from each table would be considered foreign keys in the “MetadataTable”, and some primary keys could change. As such, each table has an unrestricted amount of vectors.

The tables contain the following data:

ApplicationTable:

ApplicationID: unique numeric tag to identify each application installed on device
Application-Purchase: unique numeric tag to identify each transaction for applications
AppName: name of each app, references ApplicationID and Application-Purchase
Utility: categorical; type of application
DateInstalled: date each application was installed on device
In-App-Purchase: unique numeric tag to identify each transaction within application

UsageTable:

UsageID: unique numeric tag for each instance where device was “unlocked” or acct on operating system was accessed
Date: date and time device is unlocked
Time: time elapsed using device, references TotalUsage
LocationID: unique numeric tag that that references location when device is unlocked

FileTable:

DocumentID: Unique numeric tag to identify document on device
FileName: name of each file, references DocumentID and File
FileType: categorical; type of file or the extension
Date: date the file was downloaded onto device
File: attachment; physical file
FileLocation: where the file is stored in the directory of the OS
StorageSpace: how much disk space the file uses

ContactTable:

ContactID: unique numeric tag to identify contact
Title: categorical; prefix such as Mr, Ms, Mrs
FirstName: contact’s first name
LastName: contact’s last name
ContactAddress: contact’s address
DOB: contact’s date of birth, dd/mm/yyyy
Email: contact’s email address
Messages: sum of messages sent and received with individual contact
Calls: sum of calls sent and received with individual contact
MediaID: unique numeric tag to identify media attachments sent and received with individual contact
MessageID: unique numeric tag to identify messages

CallID: unique numeric tag to identify calls

MetadataTable:

ApplicationID: *see ApplicationTable

Application-PurchaseID: *see ApplicationTable

In-App-PurchaseID: *see ApplicationTable

UsageID: *see UsageTable

LocationID: *see UsageTable

DocumentID: *see FileTable

ContactID: *see ContactTable

MessageID: *see ContactTable

CallID: *see ContactTable

TotalMessages: sum of all messages sent and received on device

TotalCalls: sum of all calls sent and received on device

TotalUsage: sum of time elapsed while device unlocked

TotalFiles: sum of all files on device

TotalApps: sum of all applications on device

TotalPurchases: sum of all purchases made with OS