AA - R to Hive (ODBC)

This page serves as a platform for connecting to hive directly from the R studio environment through an ODBC Connection. This pattern is tailored for the purpose of exporting the master table (after all data management has been done)

Pre-requisites for Hive

The correct version of the hive ODBC driver needs to be installed locally. Please see details below:

Hive ODBC driver version	Bit	Link location	
2.6.9	32 or 64 depending on your operating system	https://www.cloudera.com/downloads/connectors/hive/odbc/2-6-1.html	



This Link takes takes you through to the landing page. The user must select the appropriate version i.e. 2.6.9

Once the driver has been downloaded:

Install ClouderaHiveODBCxx.msi (with xx replaced with 32 or 64 depending on your operating system).

Pre-requisites for R

The following Pre-requisites are required on the R front once the Hive ODBC driver has been installed:

Software requirements

Requirement	Description	version
Base R	The Code engine	latest version
R Studio	IDE for Base R	latest version

R Package requirements:

Ensure that these packages are installed before the execution of the R script below. This will ensure that the connection to Hive is successful

Package Name
odbc
getPass
DBI

R Script: R ODBC

```
library(odbc)
library(getPass)
library(DBI)
\#\# Make sure that the Hive ODBC v2.6.9 is installed on your local machine
## AuthMech = 3 - local user details defined.
## specify user id in lowercase
con <- DBI::dbConnect(odbc::odbc(),</pre>
Driver = "Cloudera ODBC Driver for Apache Hive",
Host = "cloudera.sanlam.co.za",
Port = "10000",
Schema = "<desired schema>",
AuthMech = 3,
UseSASL = 1,
HiveServerType = 2,
UID = getPass::getPass("Enter username: "),
PWD = getPass::getPass("Enter the password: "))
## Showcasing the tables present within the desired database.
DBI::dbGetQuery(con, "show tables")
test_data <- DBI::dbGetQuery(con, "select * from <schema.table>")
## Close connection
DBI::dbDisconnect(con)
```