**Package ‘lubridate’:** Make Dealing with Dates a Little Easier

**Description**: Functions to work with date-times and time-spans: fast and user friendly parsing of date-time data, extraction and updating of components of a date-time (years, months, days, hours, minutes, and seconds), algebraic manipulation on date-time and time-span objects. The 'lubridate' package has a consistent and memorable syntax that makes working with dates easy and fun.

**Package ‘data.table’:** Extension of `data.frame`

**Description**: Fast aggregation of large data (e.g. 100GB in RAM), fast ordered joins, fast add/modify/delete of columns by group using no copies at all, list columns, friendly and fast character-separated-value read/write. Offers a natural and flexible syntax, for faster development.

**Package ‘ggplot2’:** Create Elegant Data Visualisations Using the Grammar of Graphics

**Description**: A system for 'declaratively' creating graphics, based on ``The Grammar of Graphics''. You provide the data, tell 'ggplot2' how to map variables to aesthetics, what graphical primitives to use, and it takes care of the details.

**Package ‘plyr’:** Tools for Splitting, Applying and Combining Data

**Description**: A set of tools that solves a common set of problems: you need to break a big problem down into manageable pieces, operate on each piece and then put all the pieces back together. For example, you might want to fit a model to each spatial location or time point in your study, summarise data by panels or collapse high-dimensional arrays to simpler summary statistics. The development of 'plyr' has been generously supported by 'Becton Dickinson'.

**Package ‘rpivotTable’:** Build Powerful Pivot Tables and Dynamically Slice & Dice your Data

**Description**: Build powerful pivot tables (aka Pivot Grid, Pivot Chart, Cross-Tab) and dynamically slice & dice / drag 'n' drop your data. 'rpivotTable' is a wrapper of 'pivottable', a powerful open-source Pivot Table library implemented in 'JavaScript' by Nicolas Kruchten. Aligned to 'pivottable' v2.19.0.

**Package ‘pwr’:** Basic Functions for Power Analysis

**Description:** Power analysis functions along the lines of Cohen (1988).

**Package ‘xlsx’:** Read, Write, Format Excel 2007 and Excel 97/2000/XP/2003 Files

**Description**: Provide R functions to read/write/format Excel 2007 and Excel 97/2000/XP/2003 file formats.