

{nottshcData}

Development of tools for querying, tidying, and analysing data in R







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Clinical Analyst 💃

Background: NHS Expert
Fastest Mario Kart Driver in the Team
RiO Expert, Data Analysis



Senior Data Scientist
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Owns two cats named Pavlov and Freud
Shiny, Server Hosting





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Data Science Intern 🥶

Background: Energy and environmental management Enjoys working with health data Forecasting, text mining, AI



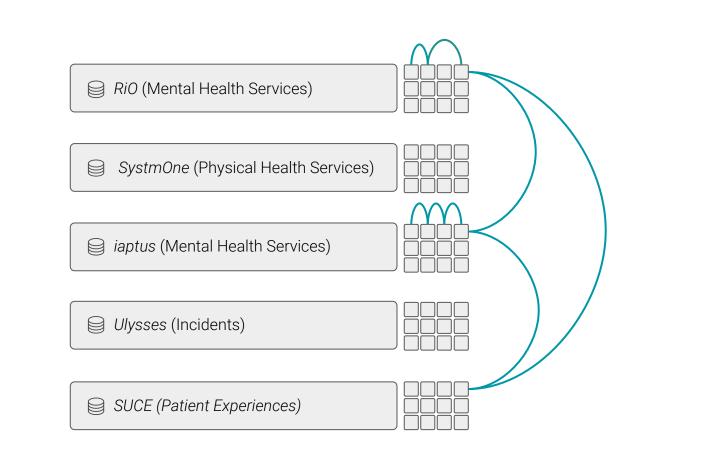
Knows too much about data SQL and data engineering







THE CHALLENGE



GET DATA

TIDY DATA

ANALYSE / VIZ DATA

DOCUMENT CODE

TEST CODE

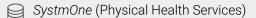


{nottshcData}











SUCE (Patient Experiences)

{honos}



Package for visualising and analysing the HoNOS (Health of the Nation Outcome Scales)

{LSOApop}



Package with Lower layer Super Output Area (LSOA) population estimates and Indices of Multiple Deprivation (IMD for England

{nottshcTeams}



Helper funs to link clinical teams across different databases

nottshcMethods}



Helper funs for data manipulations, calculations, and visualisations

pxtextmining}

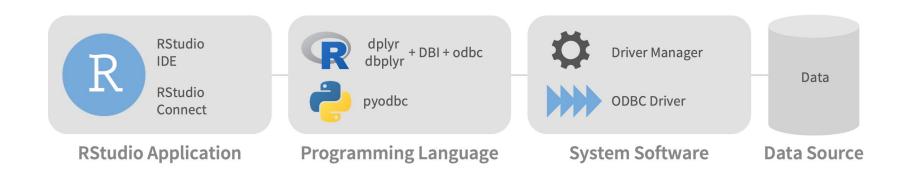


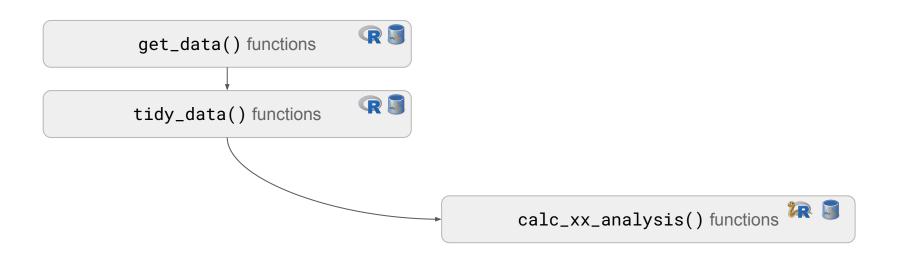
Package for text classification of NHS patient experiences

{outcomesdashboard}



Interactive dashboard presenting results to a selected group of clinicians, managers, or the public.





Reference: https://db.rstudio.com/odbc/



What is the 'total admission length' (internal and external) of a patient?

Which other teams are patients 'open to' while they are seen by one or more teams of interest?



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AUTOMATION OF RECURRING TASKS

EASY TO DISTRIBUTE ACROSS TEAM

CONSISTENT WORKFLOW ACROSS ANALYSTS

MODULAR APPROACH

DISAGGREGATION of DATA vs ANALYSIS

BLOG POST

Which other teams are patients 'under the care of' while they are seen by one or more teams of interest?

Which other teams are patients 'open to' while they are seen by one or more teams of interest?

```
SELECT **

FROM (SELECT COALESCE("LHS"."client.id", "RHS"."client.id") AS "client.id", "primary_referral_id", "primary_referral_datetime", "primary_team_code", "primary_team_code", "primary_team_code", "primary_team_code", "primary_team_code", "primary_team_code", "primary_team_code", "primary_team_code", "primary_team_code", "team_code", "primary_team_code", "team_code", "primary_team_tode", "referral_id", "team_code", "t
```



Overview

dbplyr is the database backend for dplyr. It allows you to use remote database tables as if they are in-memory data frames by automatically converting dplyr code into SQL.

To learn more about why you might use dbplyr instead of writing SQL, see vignette("sql"). To learn more about the details of the SQL translation, see vignette("translation-verb") and vignette("translation-function").