

# project manager - team workload

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## Project Tracker Analysis

### Load necessary libraries

Check if the 'pacman' package is available; if not, install it

```
## Loading required namespace: pacman
```

### Import Data

Read project tracker data from the Excel file

### Prepare the Data

Convert specific columns to categorical factors for better analysis and see quick summary.

```
##           id           assigned_date           country
## Length:100      Min.   :2020-01-06 00:00:00      China       :10
## Class :character 1st Qu.:2020-11-12 12:00:00      France        : 9
## Mode  :character Median :2021-09-13 12:00:00      India         : 9
##           Mean   :2021-09-11 18:43:12      Mexico        : 9
##           3rd Qu.:2022-07-01 18:00:00      Australia     : 8
##           Max.   :2023-07-25 00:00:00      South Africa: 8
##                                     (Other)    :47
##           city      standard_program      status      delivery_completed
## Sydney      : 8      Min.      : 90.0      assigned : 1      Min.      :2020-06-28 00:00:00
## Madrid      : 5      1st Qu.:120.0      completed:89      1st Qu.:2021-03-11 06:00:00
## São Paulo   : 5      Median :120.0      delivery  : 3      Median :2021-11-29 00:00:00
## Guadalajara: 4      Mean    :117.9      design   : 6      Mean   :2021-12-11 09:04:00
## Guangzhou   : 4      3rd Qu.:120.0      kick off : 1      3rd Qu.:2022-08-23 00:00:00
## Lyon        : 4      Max.    :120.0                                     Max.    :2023-09-25 00:00:00
## (Other)     :70                                     NA's    :10
##           design_manager      delivery_manager
## Jane Smith   :31      Andrew Wilson:33
## John Doe     :35      David Lee   :36
## Michael Brown:34      Emily Johnson:31
##
```

##  
##  
##

## Team Workload Analysis

Calculate the workload for design managers

See the Design managers current active workload for besacully decide the new project assignment.

## Display the workload for design managers

Show

10

▼
entries

Search:

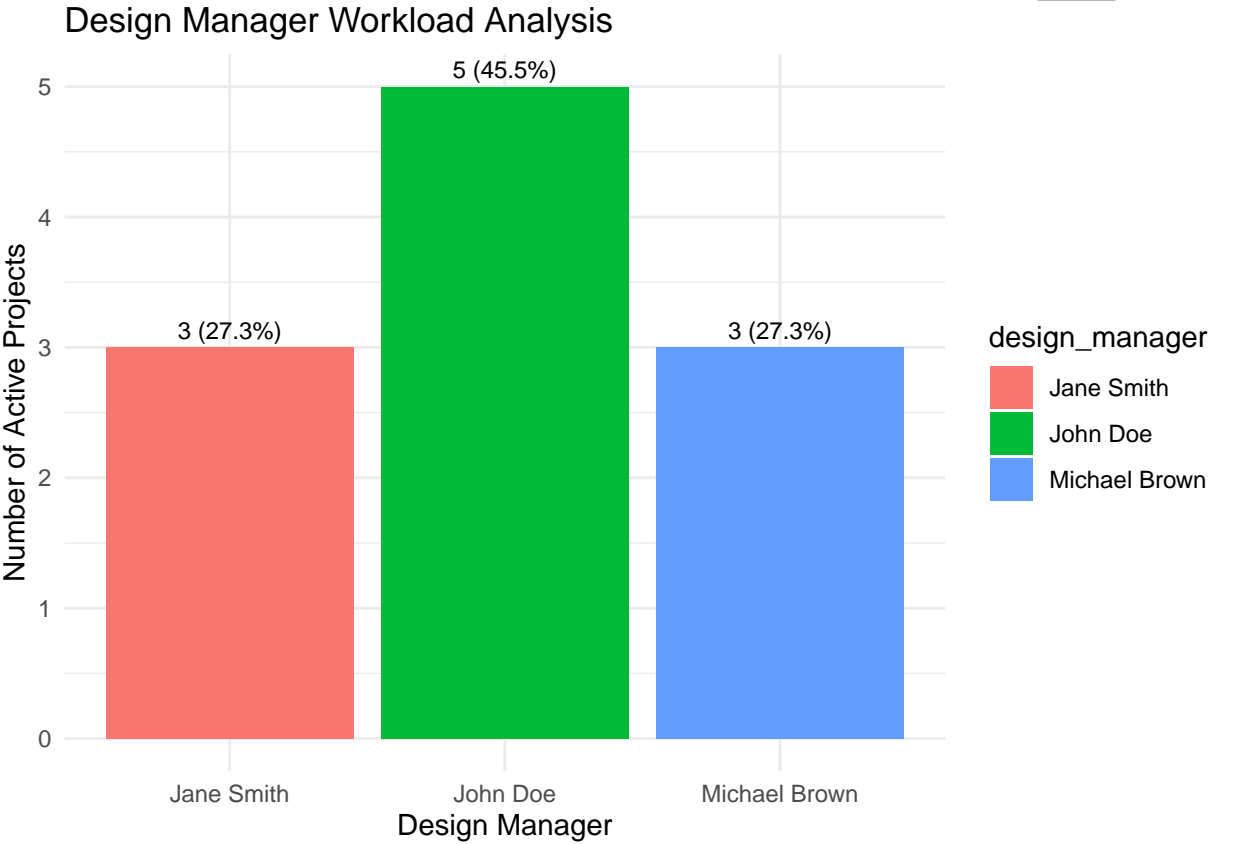
	design_manager	Active_Projects	Percentage
1	Jane Smith	3	27.3
2	John Doe	5	45.5
3	Michael Brown	3	27.3

Showing 1 to 3 of 3 entries

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### Calculate the workload for delivery managers

See the Delivery managers current active workload for besacully decide the new project assignment.

## Display the workload for delivery managers

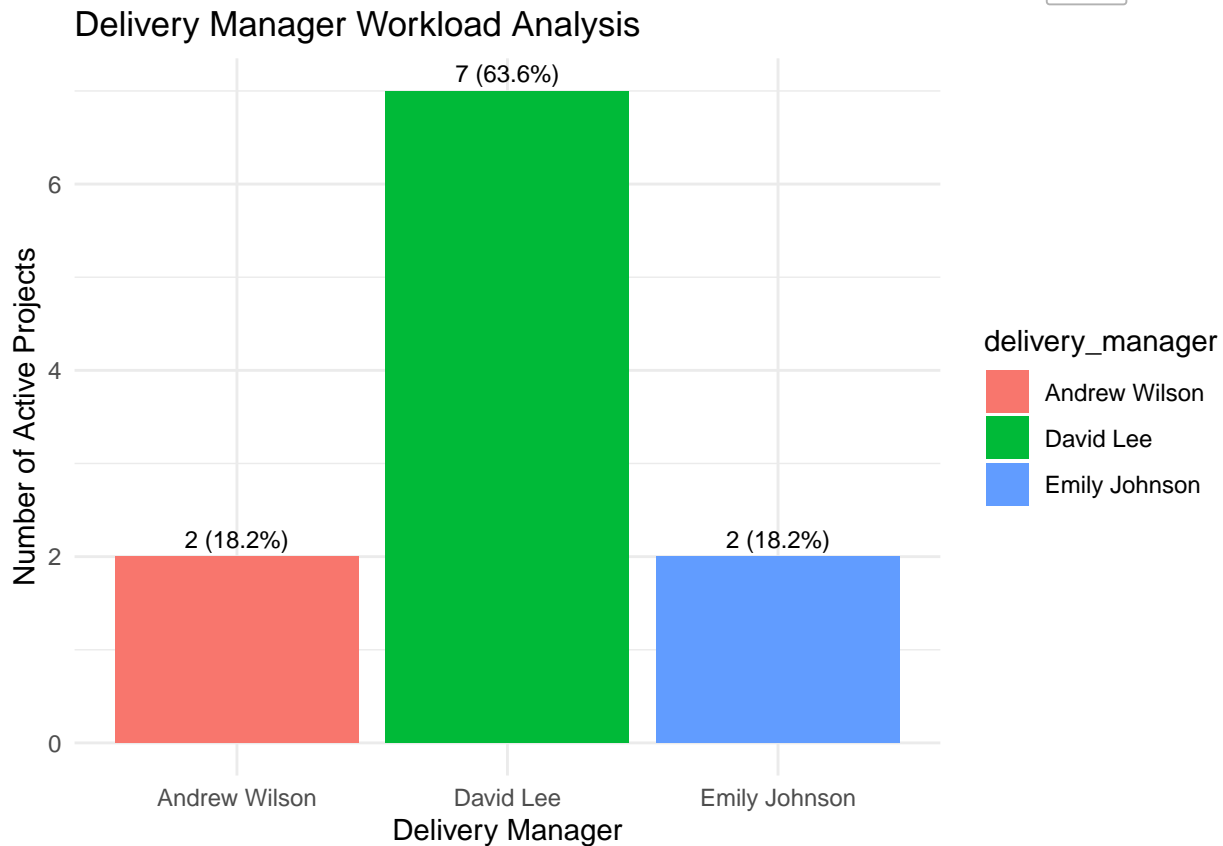
Show  entries

Search:

	delivery_manager	Active_Projects	Percentage
1	Andrew Wilson	2	18.2
2	David Lee	7	63.6
3	Emily Johnson	2	18.2

Showing 1 to 3 of 3 entries

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### Analyze team workload relationships

for each active combination of (design manager - delivery manager) see the workload to decide the best team for assigning the new projects

## Display team workload analysis

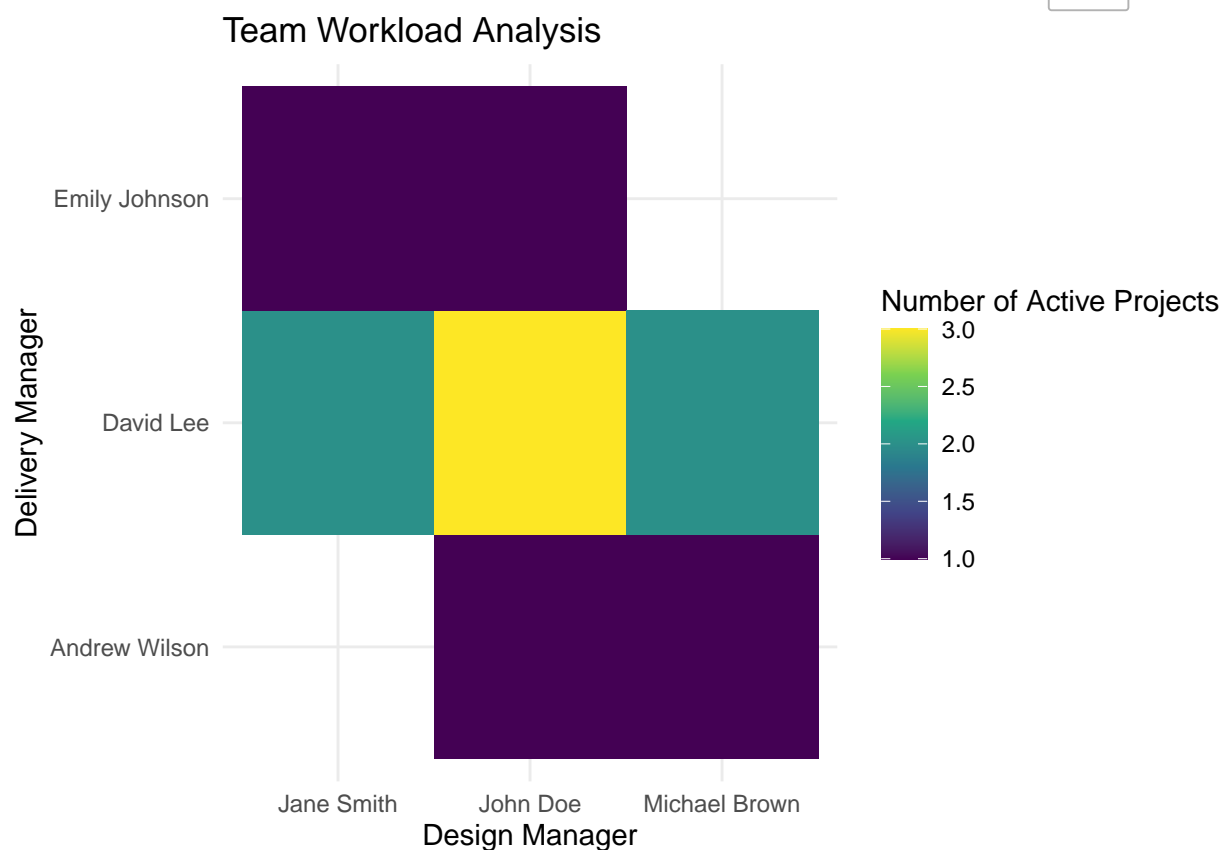
Show  entries

Search:

	design_manager	delivery_manager	Active_Projects
1	Jane Smith	David Lee	2
2	Jane Smith	Emily Johnson	1
3	John Doe	Andrew Wilson	1
4	John Doe	David Lee	3
5	John Doe	Emily Johnson	1
6	Michael Brown	Andrew Wilson	1
7	Michael Brown	David Lee	2

Showing 1 to 7 of 7 entries


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### Design Managers Workload Distribution by Country

See the countries where each design manager is involved helps to assign the new project or reassign the active projects to improve the efficiency

## Display design manager workload distribution by location

Show   entries

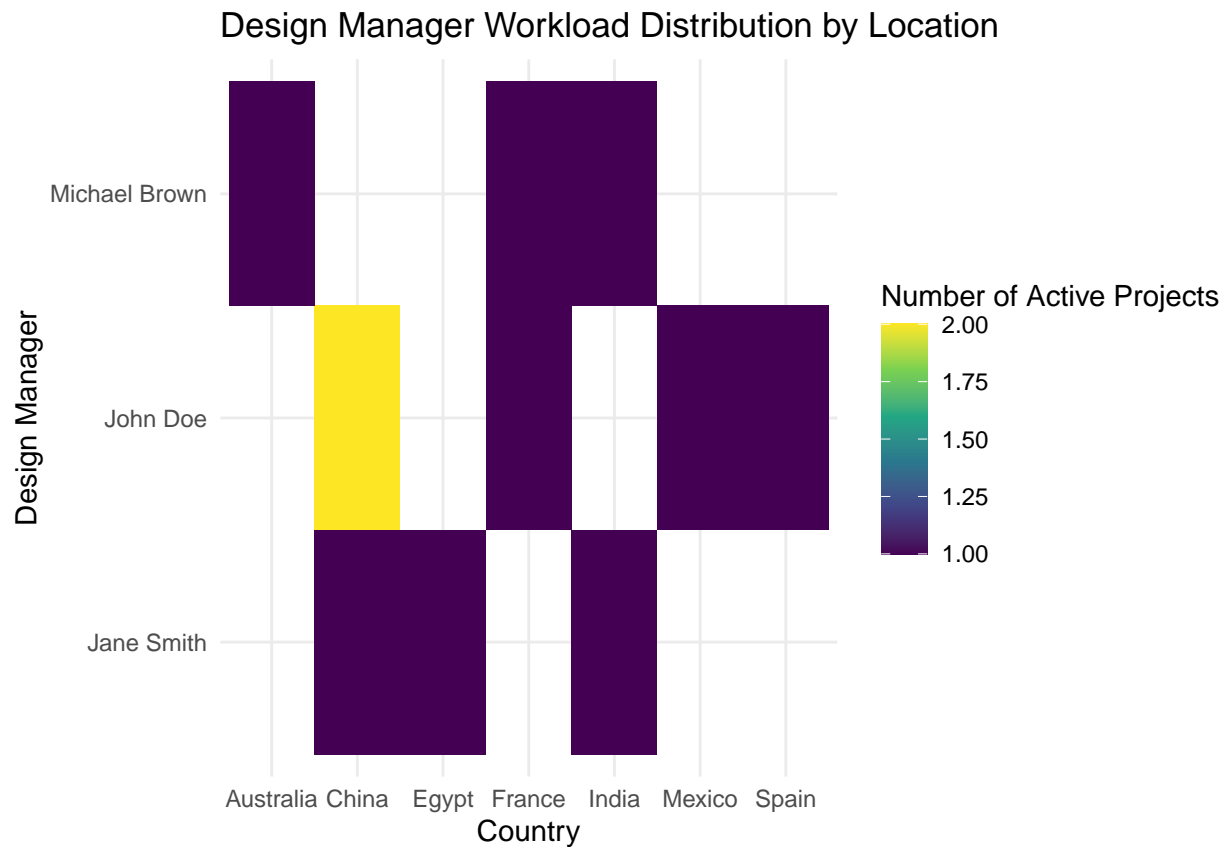
Search:

	design_manager	country	Active_Projects
1	Jane Smith	China	1
2	Jane Smith	Egypt	1
3	Jane Smith	India	1
4	John Doe	China	2
5	John Doe	France	1
6	John Doe	Mexico	1
7	John Doe	Spain	1
8	Michael Brown	Australia	1
9	Michael Brown	France	1
10	Michael Brown	India	1

Showing 1 to 10 of 10 entries

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### Delivery Managers Workload Distribution by Country

See the countries where each delivery manager is involved helps to assign the new project or reassign the active projects to improve the efficiency

```
## Display delivery manager workload distribution by location
```

Show  entries

Search:

	delivery_manager	country	Active_Projects
1	Andrew Wilson	India	1
2	Andrew Wilson	Mexico	1
3	David Lee	Australia	1
4	David Lee	China	2
5	David Lee	Egypt	1
6	David Lee	France	2
7	David Lee	Spain	1
8	Emily Johnson	China	1
9	Emily Johnson	India	1

Showing 1 to 9 of 9 entries

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delivery Manager Workload Distribution by Location

