

NYCflights13

▼ Q1: Top 5 destinations in December 2013

▼ Code

```
Q1 <- flights %>%
  filter(month == 12, year == 2013) %>%
  count(dest, sort = TRUE, name = "Total_flight") %>%
  arrange(desc(5)) %>%
  head(5) %>%
  left_join(airports,
    by = c("dest" = "faa"))
```

▼ Results

```
> Q1 <- flights %>%
+   filter(month == 12, year == 2013) %>%
+   count(dest, sort = TRUE, name = "Total_flight") %>%
+   arrange(desc(5)) %>%
+   head(5) %>%
+   left_join(airports,
+     by = c("dest" = "faa"))
> Q1
# A tibble: 5 × 9
  dest Total_flight name      lat lon alt tz dst
<chr>      <int> <chr>    <dbl> <dbl> <dbl> <dbl> <chr>
1 ATL          1463 Hartsfie... 33.6 -84.4 1026 -5 A
2 LAX          1408 Los Ange... 33.9 -118. 126 -8 A
3 MCO          1219 Orlando ... 28.4 -81.3 96 -5 A
4 ORD          1196 Chicago ... 42.0 -87.9 668 -6 A
5 CLT          1193 Charlott... 35.2 -80.9 748 -5 A
```

▼ Q2: Top 5 biggest carriers of JFK origin

▼ Code

```
Q2 <- flights %>%
  left_join(planes,
    by = c("tailnum" = "tailnum")) %>%
  select(flight, origin, dest, model, seats) %>%
  filter(origin == "JFK") %>%
  arrange(desc(seats)) %>%
  head(5)
```

▼ Results

```

> Q2 <- flights %>%
+   left_join(planes,
+             by = c("tailnum" = "tailnum"))%>%
+   select(flight, origin, dest, model, seats)%>%
+   filter(origin == "JFK") %>%
+   arrange(desc(seats))%>%
+   head(5)
> Q2
# A tibble: 5 × 5
  flight origin dest  model    seats
  <int> <chr>   <chr> <chr>   <int>
1     27 JFK    ATL   747-451   450
2    595 JFK    SFO   777-222   400
3    389 JFK    SFO   777-222   400
4     17 JFK    LAX   777-232   400
5     27 JFK    PHX   A321-231   379

```

▼ Q3: Top 3 most delayed flights in April 2013

▼ Code

```

Q3 <- flights %>%
  select(carrier, flight, arr_delay, year, month, day)%>%
  filter(year == 2013, month == 4)%>%
  mutate(arr_delay_hr = glue("{round(arr_delay/60, digit = 2)} hrs")) %>%
  arrange(desc(arr_delay))%>%
  head(3)

```

▼ Results

```

> Q3 <- flights %>%
+   select(carrier, flight, arr_delay, year, month, day)%>%
+   filter(year == 2013, month == 4)%>%
+   mutate(arr_delay_hr = glue("{round(arr_delay/60, digit = 2)} hrs")) %>%
+   arrange(desc(arr_delay))%>%
+   head(3)
> Q3
# A tibble: 3 × 7
  carrier flight arr_delay year month day arr_delay_hr
  <chr>   <int>   <dbl> <int> <int> <int> <glue>
1 DL      2391     931  2013     4   10 15.52 hrs
2 DL      1435     821  2013     4   19 13.68 hrs
3 AA      1901     783  2013     4   19 13.05 hrs

```

▼ Q4: Number of flights of LGA-IAH route on 1st October 2013

▼ Code

```

Q4 <- flights %>%
  filter(origin == "LGA", dest == "IAH", year == 2013, month == 10, day == 1) %>%
  count()

```

▼ Results

```

> Q4 <- flights %>%
+   filter(origin == "LGA", dest == "IAH", year == 2013, month == 10, day == 1) %>%
+   count()
> Q4
# A tibble: 1 × 1
      n
  <int>
1     9

```

▼ Q5: Top 5 most popular routes in 2013

▼ Code

```
Q5 <- flights %>%
  mutate(route = glue("{origin} - {dest}")) %>%
  count(route, sort = TRUE, name = "Total_flight") %>%
  arrange(desc(5)) %>%
  head(5)
```

▼ Results

```
> Q5 <- flights %>%
+   mutate(route = glue("{origin} - {dest}")) %>%
+   count(route, sort = TRUE, name = "Total_flight") %>%
+   arrange(desc(5)) %>%
+   head(5)
> Q5
# A tibble: 5 × 2
  route      Total_flight
  <glue>      <int>
1 JFK - LAX      11262
2 LGA - ATL      10263
3 LGA - ORD       8857
4 JFK - SFO       8204
5 LGA - CLT       6168
```