MySQL on Server

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Why MySQL

- Free and popular
- Support most programming language
- Easy to understand

Installation and Management

Download and install

```
yum install mysql mysql-server
service mysqld start
```

- Default access account: root
 - User account could be created and granted different privileges

Demo (1)

- Log in
- Use database
- Show tables
- Show fields

```
SHOW
FIELDS
FROM
'1000_page_2016-01';
```

Demo (2)

Get size of a table

```
SELECT
  table_name AS 'Table',
  ROUND(((data_length + index_length) / 1024 / 1024/ 1024), 2)
  AS 'Size in GB'
FROM information_schema.TABLES
WHERE table_schema = "1000_page_us_user_like_post" AND
  table_name = "1000_page_2016-01";
```

Import User Like Page Data by Month (1)

- 1 Import library "dbConnect"
- Connect to MySQL

3 Create a table schema for month data

Import User Like Page Data by Month (2)

- Read daily data into R to remove duplicate and save it as another file
- 5 Expand the month data table by "load data infile"

Extract Weekly Data

- Selecting the date range
- Union needed if you need data from two tables
- ② Group your data by user_id, page_id
- Turn it into user_like_page data by "Group_Concat"
 - Be aware of group_concat_max_len