**SRP 1:**

SRP 1:   Entity analysis:

Assumed tables:
Users, posts ,followers, comments, avatars,
Votes

Descriptions:
Users will post 
Users can follow other users
Users can comment on others posts
Users can vote on other posts and comments
Users can follow posts
User can follow group of users





Sample data points from all possible attributes
Ink Drawings
Ink Drawings
Ink Drawings
users
posts
User_posts
Ink Drawings
followers
Ink Drawings
Ink Drawings
Ink Drawings
Ink Drawings
User_post_comments
Ink Drawings
User_post_votes
User id
Post id
vote
comment
followers



1
1,2,3
4,6
C1,c2
2,3



2
4,5
1,2
C3,c4
4



3
6
7
C5
1



4
7
5
C6,c7,c8
2





Steps for more analysis:

1. Fetch data from reddit api endpoints
2. Read data collected and identify entities or attributes for mentioned entities

Sample top posts from subreddit – python

Sunday Daily Thread: What's everyone working on this week?

Tuesday Daily Thread: Advanced questions

Introducing Pants 2.7: Python tool lockfiles, Yapf, Docker, and easier introspection

What would be the best way to do 2D multiple objects movement simulation with Python? (dance choreography)

Simle telegram bot

ETL Library for Python

Why are all machine learning algorithms based on python?

Using Minimax Algorithm to create an Unbeatable Tic-Tac-Toe Opponent in Python

Looking for a collaborator to learn UI

Using Python To Make Games

Sample data from response

{'approved\_at\_utc': None, 'subreddit': 'learnpython', 'selftext': 'Welcome to another /r/learnPython weekly "Ask Anything\\\* Monday" thread\n\nHere you can ask all the questions that you wanted to ask but didn\'t feel like making a new thread.\n\n\\\* It\'s primarily intended for simple questions but as long as it\'s about python it\'s allowed.\n\nIf you have any suggestions or questions about this thread use the message the moderators button in the sidebar.\n\n\*\*Rules:\*\*\n\n\* Don\'t downvote stuff - instead explain what\'s wrong with the comment, if it\'s against the rules "report" it and it will be dealt with.\n\* Don\'t post stuff that doesn\'t have absolutely anything to do with python.\n\* Don\'t make fun of someone for not knowing something, insult anyone etc - this will result in an immediate ban.\n\nThat\'s it.', 'author\_fullname': 't2\_6l4z3', 'saved': False, 'mod\_reason\_title': None, 'gilded': 0, 'clicked': False, 'title': 'Ask Anything Monday - Weekly Thread', 'link\_flair\_richtext': [], 'subreddit\_name\_prefixed': 'r/learnpython', 'hidden': False, 'pwls': 6, 'link\_flair\_css\_class': None, 'downs': 0, 'top\_awarded\_type': None, 'hide\_score': False, 'name': 't3\_pw5era', 'quarantine': False, 'link\_flair\_text\_color': 'dark', 'upvote\_ratio': 1.0, 'author\_flair\_background\_color': None, 'subreddit\_type': 'public', 'ups': 3, 'total\_awards\_received': 0, 'media\_embed': {}, 'author\_flair\_template\_id': None, 'is\_original\_content': False, 'user\_reports': [], 'secure\_media': None, 'is\_reddit\_media\_domain': False, 'is\_meta': False, 'category': None, 'secure\_media\_embed': {}, 'link\_flair\_text': None, 'can\_mod\_post': False, 'score': 3, 'approved\_by': None, 'is\_created\_from\_ads\_ui': False, 'author\_premium': True, 'thumbnail': '', 'edited': False, 'author\_flair\_css\_class': None, 'author\_flair\_richtext': [], 'gildings': {}, 'content\_categories': None, 'is\_self': True, 'mod\_note': None, 'created': 1632700818.0, 'link\_flair\_type': 'text', 'wls': 6, 'removed\_by\_category': None, 'banned\_by': None, 'author\_flair\_type': 'text', 'domain': 'self.learnpython', 'allow\_live\_comments': False, 'selftext\_html': '&lt;!-- SC\_OFF --&gt;&lt;div class="md"&gt;&lt;p&gt;Welcome to another &lt;a href="/r/learnPython"&gt;/r/learnPython&lt;/a&gt; weekly &amp;quot;Ask Anything\* Monday&amp;quot; thread&lt;/p&gt;\n\n&lt;p&gt;Here you can ask all the questions that you wanted to ask but didn&amp;#39;t feel like making a new thread.&lt;/p&gt;\n\n&lt;p&gt;\* It&amp;#39;s primarily intended for simple questions but as long as it&amp;#39;s about python it&amp;#39;s allowed.&lt;/p&gt;\n\n&lt;p&gt;If you have any suggestions or questions about this thread use the message the moderators button in the sidebar.&lt;/p&gt;\n\n&lt;p&gt;&lt;strong&gt;Rules:&lt;/strong&gt;&lt;/p&gt;\n\n&lt;ul&gt;\n&lt;li&gt;Don&amp;#39;t downvote stuff - instead explain what&amp;#39;s wrong with the comment, if it&amp;#39;s against the rules &amp;quot;report&amp;quot; it and it will be dealt with.&lt;/li&gt;\n&lt;li&gt;Don&amp;#39;t post stuff that doesn&amp;#39;t have absolutely anything to do with python.&lt;/li&gt;\n&lt;li&gt;Don&amp;#39;t make fun of someone for not knowing something, insult anyone etc - this will result in an immediate ban.&lt;/li&gt;\n&lt;/ul&gt;\n\n&lt;p&gt;That&amp;#39;s it.&lt;/p&gt;\n&lt;/div&gt;&lt;!-- SC\_ON --&gt;', 'likes': None, 'suggested\_sort': 'new', 'banned\_at\_utc': None, 'view\_count': None, 'archived': False, 'no\_follow': False, 'is\_crosspostable': True, 'pinned': False, 'over\_18': False, 'all\_awardings': [], 'awarders': [], 'media\_only': False, 'can\_gild': True, 'spoiler': False, 'locked': False, 'author\_flair\_text': None, 'treatment\_tags': [], 'visited': False, 'removed\_by': None, 'num\_reports': None, 'distinguished': None, 'subreddit\_id': 't5\_2r8ot', 'author\_is\_blocked': False, 'mod\_reason\_by': None, 'removal\_reason': None, 'link\_flair\_background\_color': '', 'id': 'pw5era', 'is\_robot\_indexable': True, 'report\_reasons': None, 'author': 'AutoModerator', 'discussion\_type': None, 'num\_comments': 43, 'send\_replies': True, 'whitelist\_status': 'all\_ads', 'contest\_mode': False, 'mod\_reports': [], 'author\_patreon\_flair': False, 'author\_flair\_text\_color': None, 'permalink': '/r/learnpython/comments/pw5era/ask\_anything\_monday\_weekly\_thread/', 'parent\_whitelist\_status': 'all\_ads', 'stickied': True, 'url': 'https://www.reddit.com/r/learnpython/comments/pw5era/ask\_anything\_monday\_weekly\_thread/', 'subreddit\_subscribers': 558206, 'created\_utc': 1632700818.0, 'num\_crossposts': 0, 'media': None, 'is\_video': False}

From Sample data ,we can see few classes like

1. Live
2. Multireddit
3. Redditors – moderators,users,subscribers
4. Subreddit – communities,flair tags,id,author,display\_name
5. User -

Refined Classes from data fetched from endpoints:

Subreddit

Submissions

Redditors

Poll\_data

Etc. there are few other classes we can observe but to continue develop our project at this stage,the above classes are sufficient

What is our objectives with above classes data:

1. How many redditors are over18 on daily basis posting
2. How many posts are from each subreddit commuity
3. How many subscribers are in each subreddit
4. Which subreddit gaining more subscribers daily rate
5. Which redditor is active in each subreddit daily basis
6. Tell me about polls data and what is polled high today?
7. Lets talk about submissions now
8. Who is talking about "spacex + mars + tour + plan" or any interesting latest combination of keywords in any submissions ?
9. What are subreddits and url for those keywords in post
10. Which day in last one week users talked about space
11. List word count in all submissions on single day summerized to whole month?
12. Few interesting faq's from reddit help section:
13. What is score from submissions
14. Which submissions have null title,name, or important fields
15. What is username numbers for each username?
16. What is max subscriptions done by user for each subreddit?
17. Who are all moderators?
18. Which moderator is banned?
19. Which moderations have more span posts?
20. Which post have low vote ratios?

Submissions:

Attirbutes:

author ,

Created\_utc,

Id,

Name

Link\_flair\_text

Permalink

Poll\_data(object)

Score

Subreddit

Title

Upvote\_ratio

url

Subreddit:

Attributes:

Id,

Display\_name

Name

Subscribers

Created\_utc

Redditor:

Attributes:

Id,

Name,

Username

Karma,

Display\_name

Created\_utc

Poll\_data: