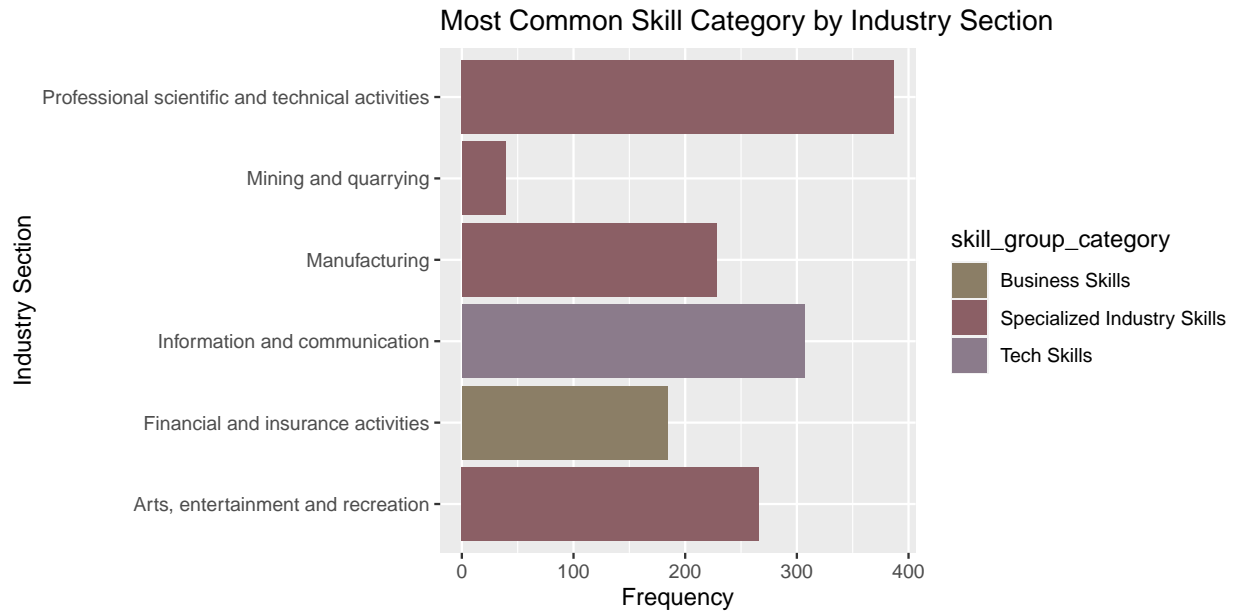# my Q1

HaoLi

5/7/2021

##data description: The data is about what skills are needed most in different industries. The industry skills needs metric captures which skills are most likely to be added to a member's profile in one industry compared to other industries.
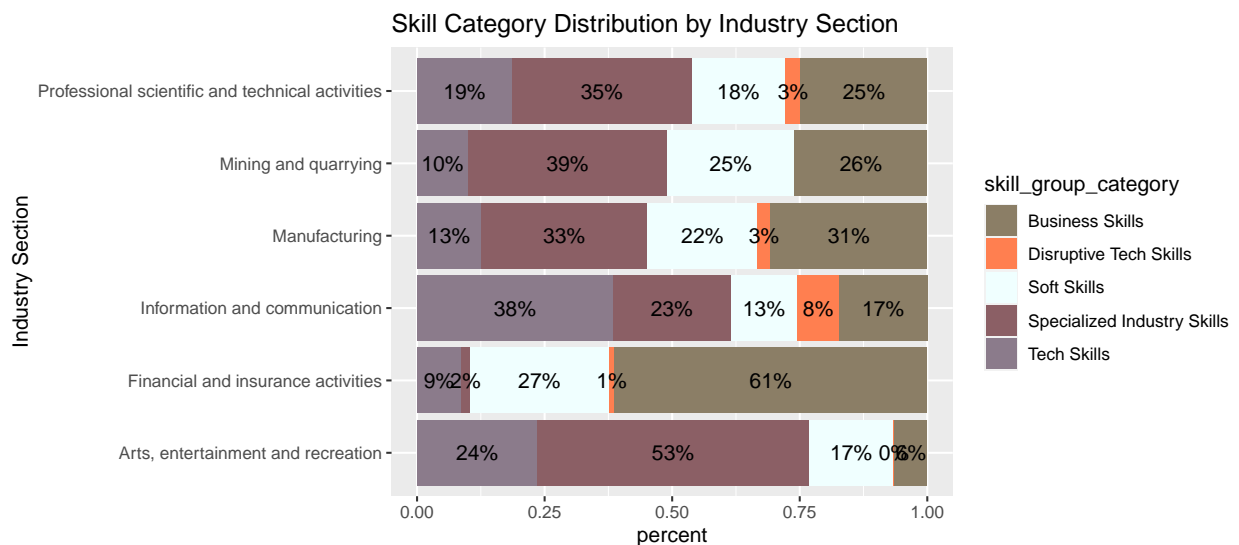
Question1. Which skill category is most common across all Industry Sections and how does it vary between each section?

The most common skill category across different sections is Business Skills.

```
## # A tibble: 29 x 3
## # Groups:   isic_section_name [6]
##    isic_section_name                        `mydat$skill_group_catego~     n
##    <fct>                                    <fct>                      <int>
##  1 Professional scientific and technical activ~ Specialized Industry Skil~   387
##  2 Information and communication            Tech Skills                  307
##  3 Professional scientific and technical activ~ Business Skills              273
##  4 Arts, entertainment and recreation       Specialized Industry Skil~   266
##  5 Manufacturing                            Specialized Industry Skil~   228
##  6 Manufacturing                            Business Skills              215
##  7 Professional scientific and technical activ~ Tech Skills                  205
##  8 Professional scientific and technical activ~ Soft Skills                  202
##  9 Information and communication            Specialized Industry Skil~   185
## 10 Financial and insurance activities       Business Skills              184
## # ... with 19 more rows
```

Most Common Skill Category by Industry Section

From the bar chart above, we can see the most common skill category within each industry section. Specialized Industry Skills are the most common skill category in 4 out of 6 industry sections.It be used more frequently in professional scientific and technical activities than the others. And tech skills are the most common in Information and Communication, because of the advanced technique is required by this occupation. In financial and insurance activities, people will often have a business conversation so the business skills are the most common skills needed by in this industry.

Skill Category Distribution by Industry Section

The above 100% stacked bar chart shows the skill category distribution within each industry section. While 4 out of 6 industry sections have a similar skill category distribution, Financial & Insurance Activities and Arts, Entertainment & Recreation have a rather different skill category distribution. Business skills are greatly needed (61%) while Tech skills are much less needed comparably for Financial industry. Specialized skills(53%) and Tech skills(24%) are majorly needed for Arts and Entertainment industry while Business skills (6%) and Disruptive Tech skills (0)are the least needed types for the industry section.

Overall,specialized Industry Skills are the most common skill in professional scientific and technical activities. While business skills are the most important thing for people to acquire in financial and insurance activities.