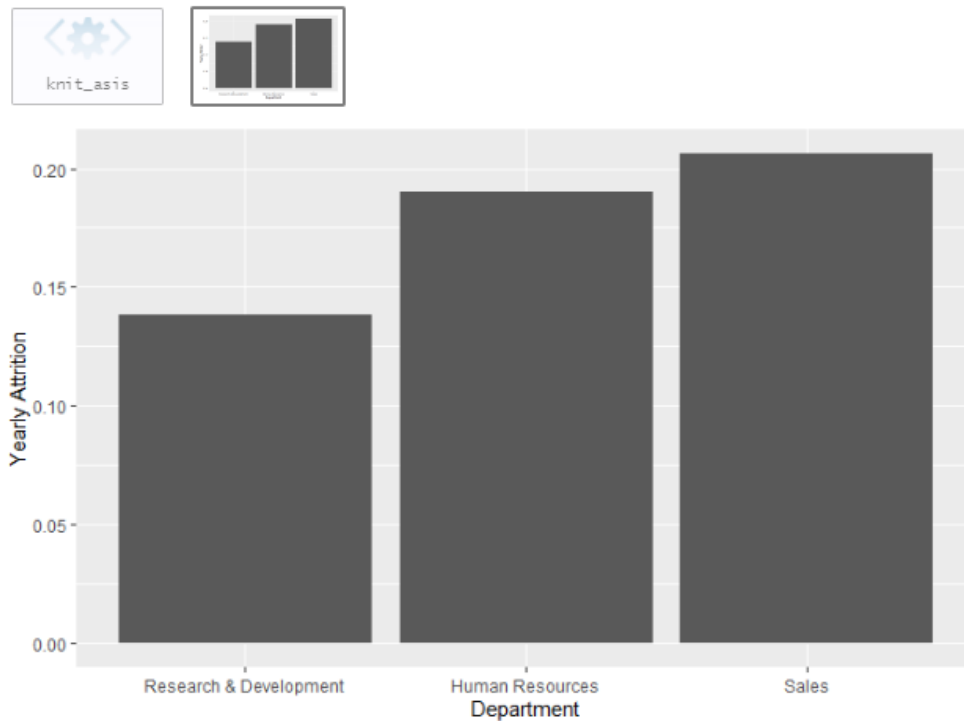
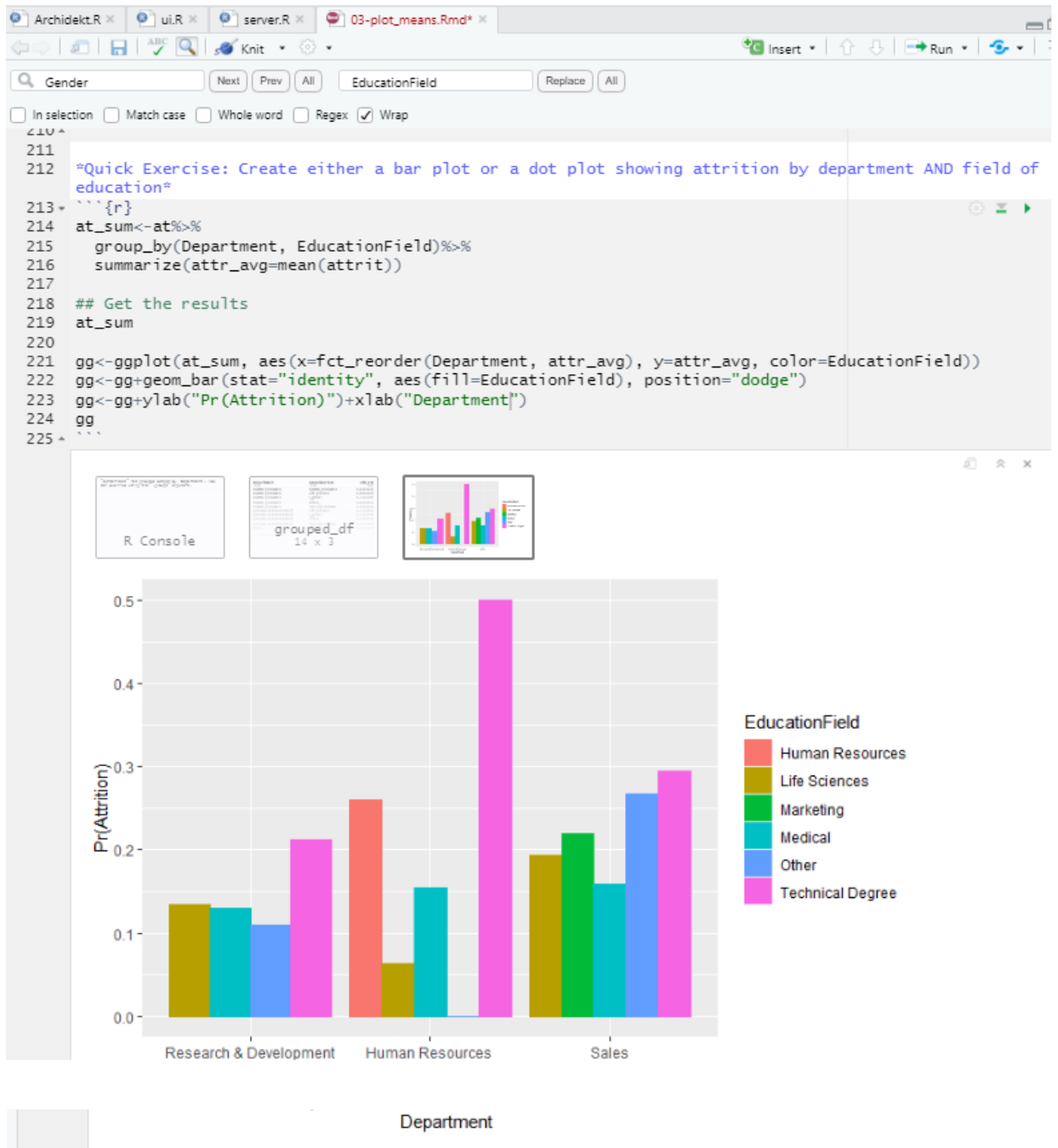


### Answer to Question 3.3

```
138 ~~~{r}
139 at_sum<-at%>%
140   group_by(Department)%>%
141   summarize(attr_avg=mean(attrit))
142
143 at%>%
144   count(Department, attrit)%>%
145   group_by(Department)%>%
146   mutate(prop = prop.table(n)*100)%>% ##you can add a *100 here to convert these to percentages
147   select(-n)%>%
148   spread(attrit, prop)%>% #pretties the table up by adding 0/1 columns
149   kable() #also pretties the table up - formatting-wise
150
151 ## Same aesthetics, but now ordered by level
152 gg<-ggplot(at_sum, aes(x=fct_reorder(Department, attr_avg), y=attr_avg)) #reordered by level of
153   attrition (lowest to highest, left to right)
154 gg<-gg+geom_bar(stat="identity")
155
156 ## Labeling
157 gg<-gg+xlab("Department")+ylab("Yearly Attrition")
158 gg
159 ~~~
160
```



### Answer to Question 3.5



## Answer to Question 3.7

