DATA ANALYTICS PROJECT WITH EXCEL SHEET

SUMMARY

Sample data of the incidents of industrial accidents have been collected across various departments and across various states in the United States. Analysed the data cut short the information into various parameters in a visualization form for easy interpretation.

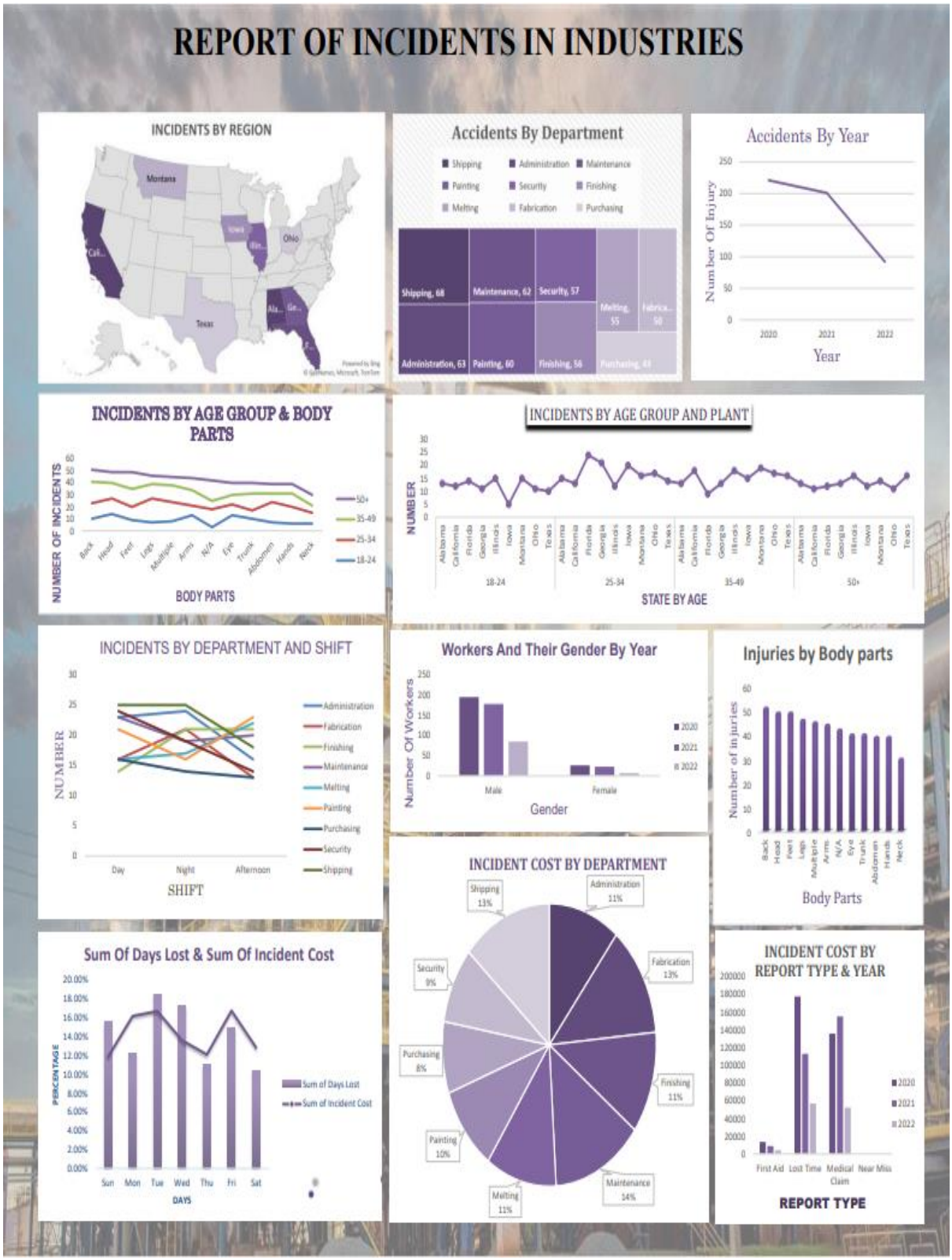
Original data set:

The original has been loaded from the online samples from the internet.

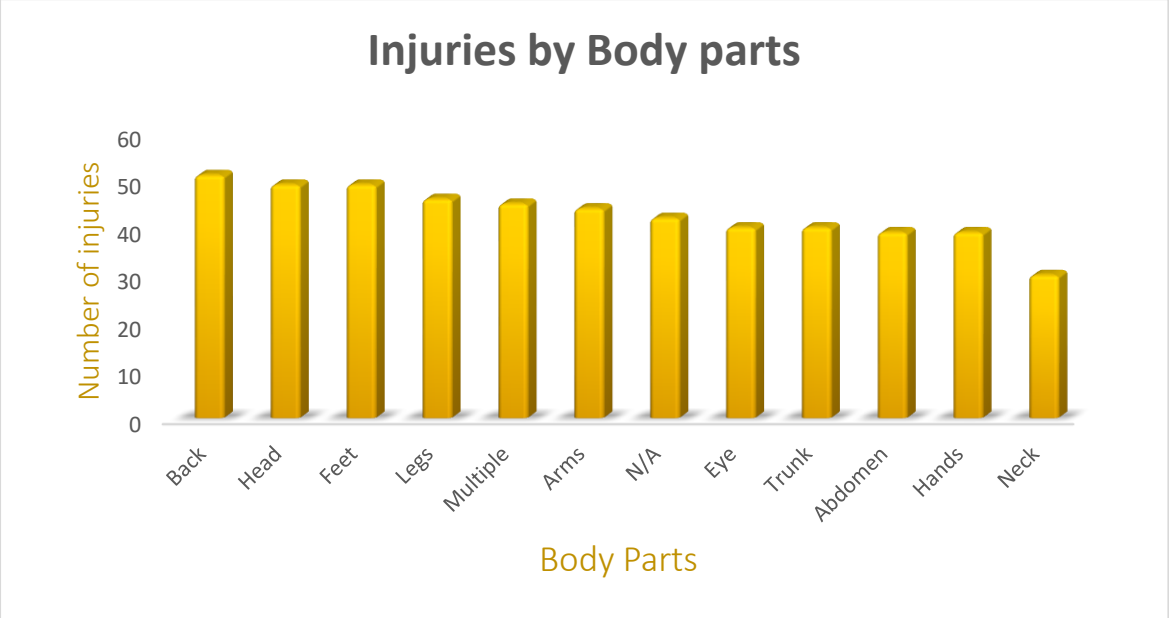
https://docs.google.com/spreadsheets/d/1FsexoQGAA03I5wlAfxGar8FA59d_gni5/edit?usp=share_link&ouid=106409707448994383139&rtpof=true&sd=true

It contains a set of data of the date of incident, on which plant it occurred which body part of the worker is damaged and the incident cost and many more data. Relations between these variables have been calculated for the purpose of analysis.

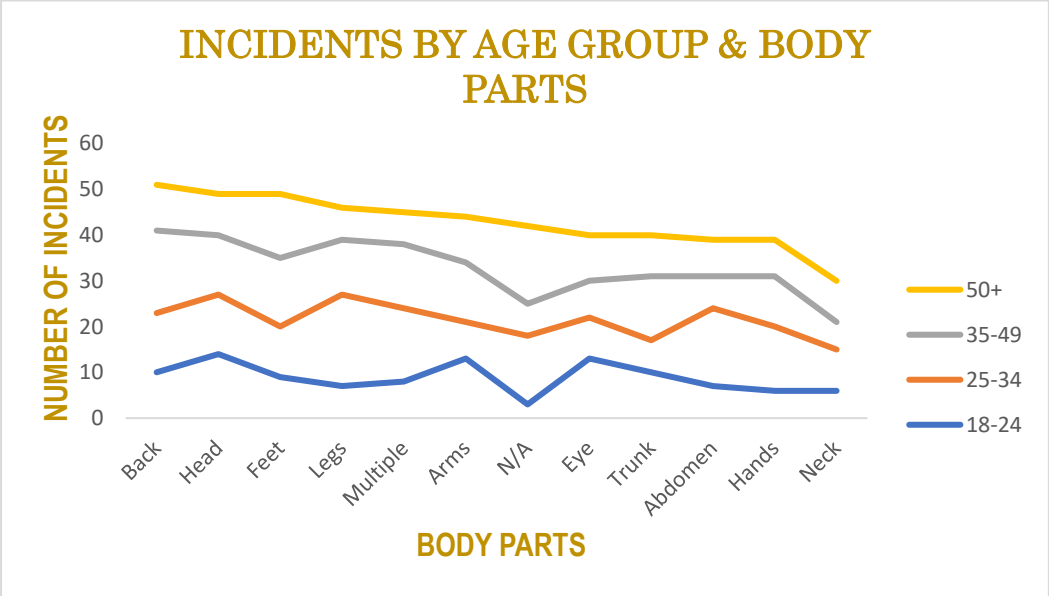
From the original data the dashboard has been created with the relevant data.



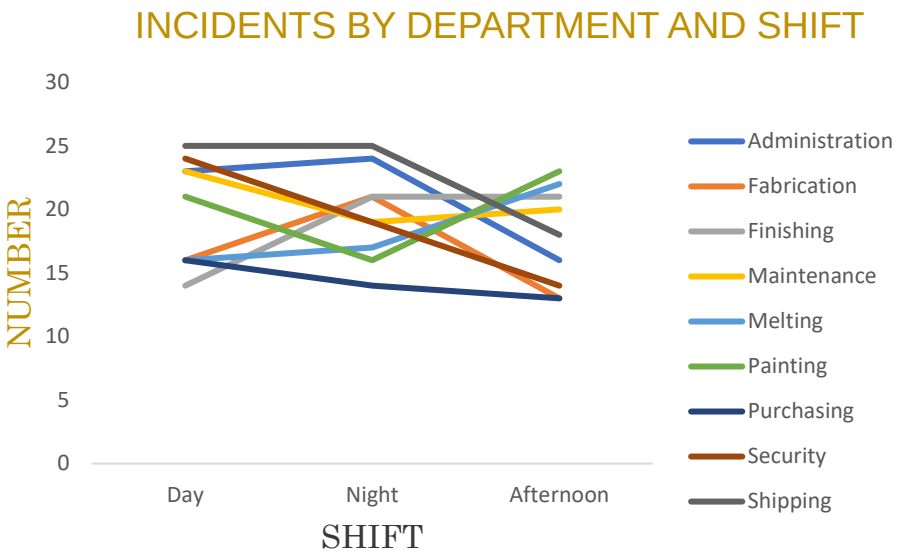
1. Which body part got the most injury for the workers. It is found that mostly the top and bottom parts like the head and upper back and the bottom parts like the ankles have been affected a lot.



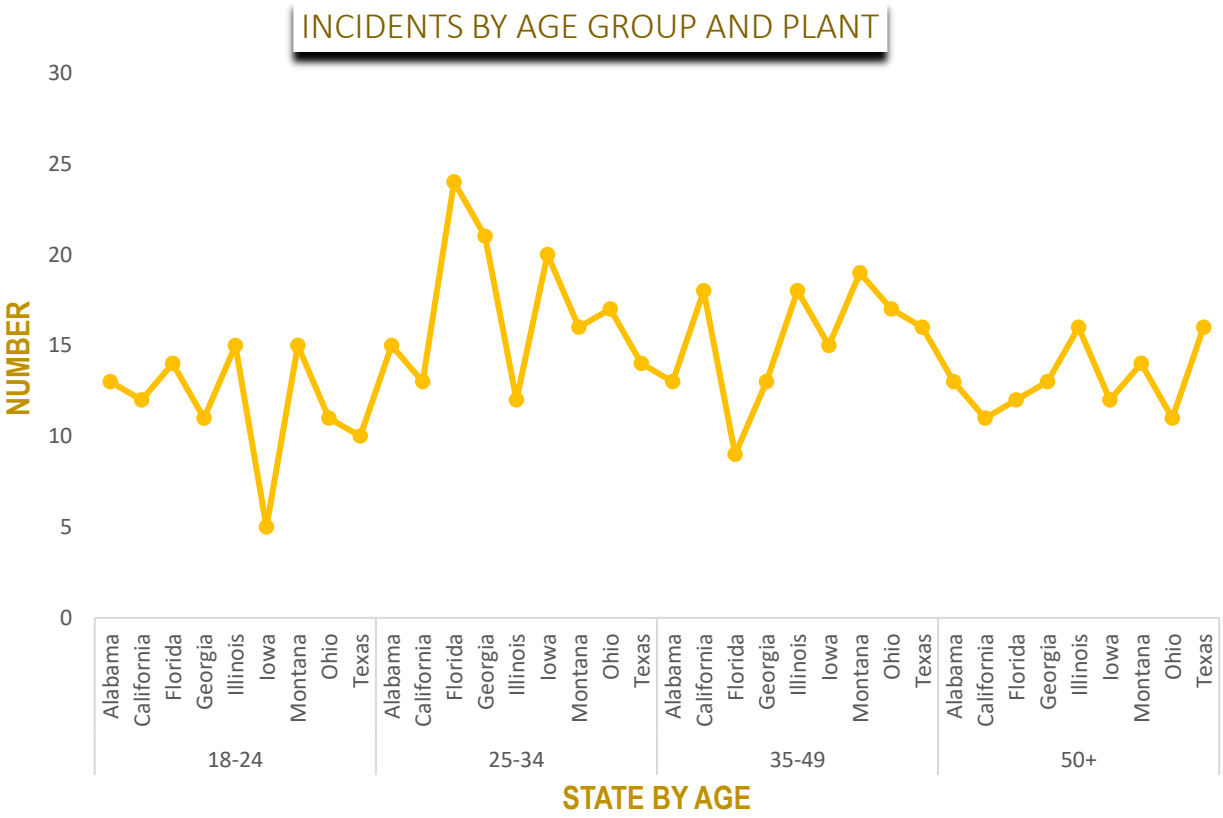
2. The incident age group is found to be mostly in the upper age group that the young wrokers. And they get most of thw injury in the back and the head.



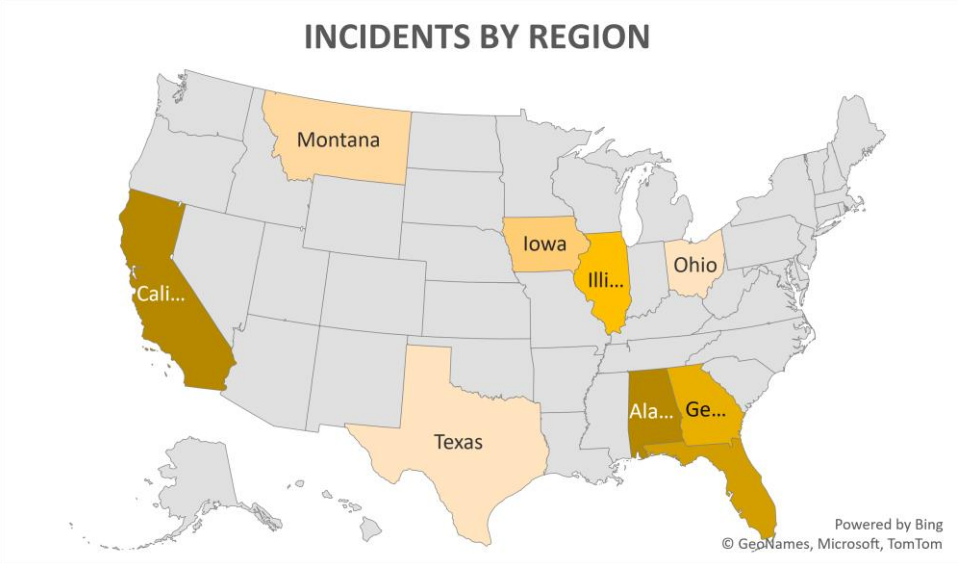
3. The number of incidents by shift and the consecutive departments are taken into consideration and some of them seem to be very hyped at the night session (fiinshing, melting, fabrication) all other seem to have a pretty low at the night shift and mostly occurred in the night shift.



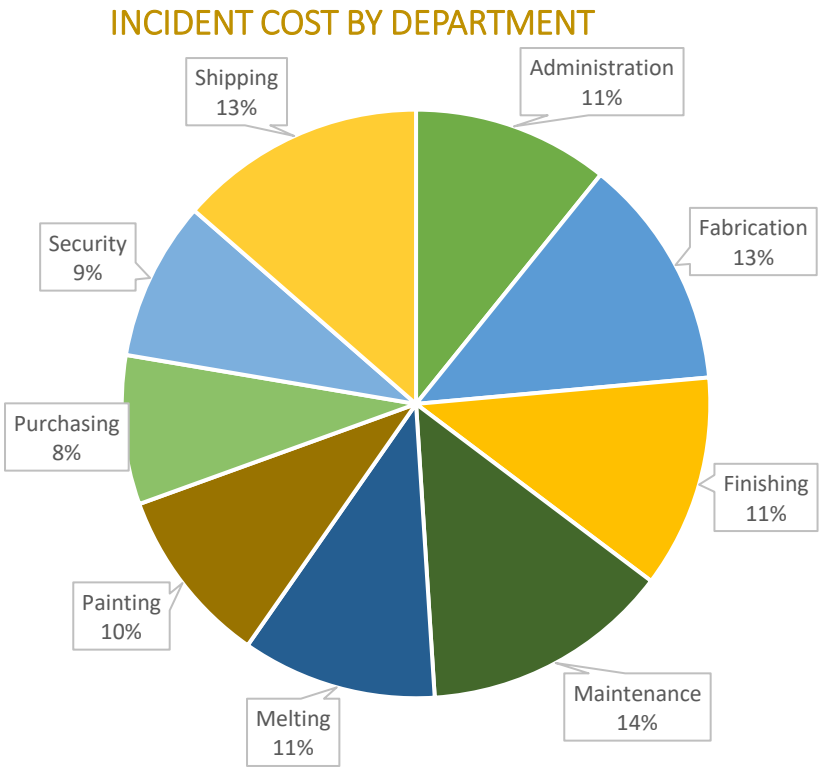
4. The distribution of incidents across age group showed that lesser the age group more is the standard deviation more is the age group lesser is the standard deviation . This shows no matter what the state is the older workers showed considerable number of injuries



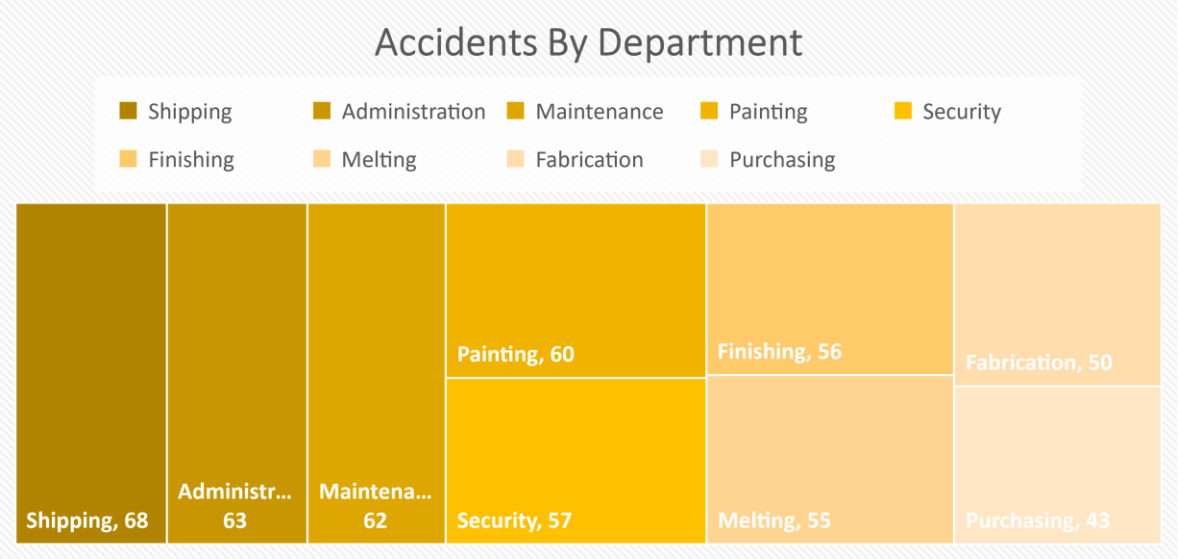
5. Regional variation has shown that california, alabama, georgia and florida are the states which recorded maximum number of incidents . It shows a direct relationshio between the shipping costal areas and the increased number of incidents in that area.



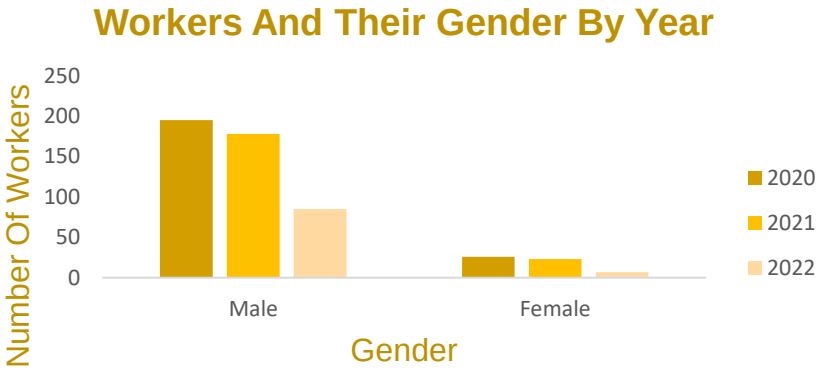
6. Incident cost of departments shows that most of the cost is caused by maintenance and shipping and fabrication departments. Those the departments which requires mechanical works and the damage done by them are the most important ones. So it requires more care be taken in the physically demanding works.



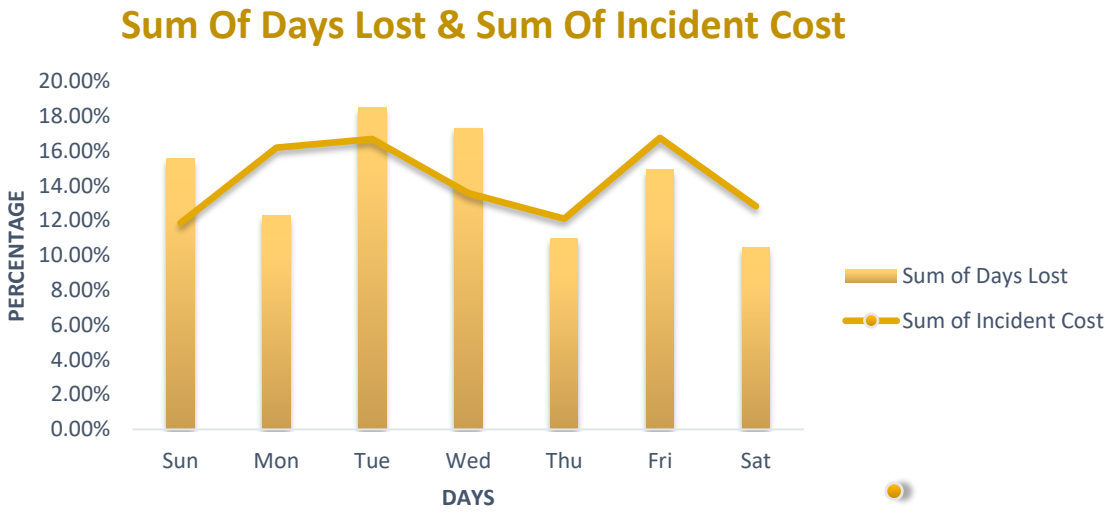
7. Shipping, administration, maintance, painting are the departments that has majority of the accidents. But however administration department has less incident cost than the maintenance one.



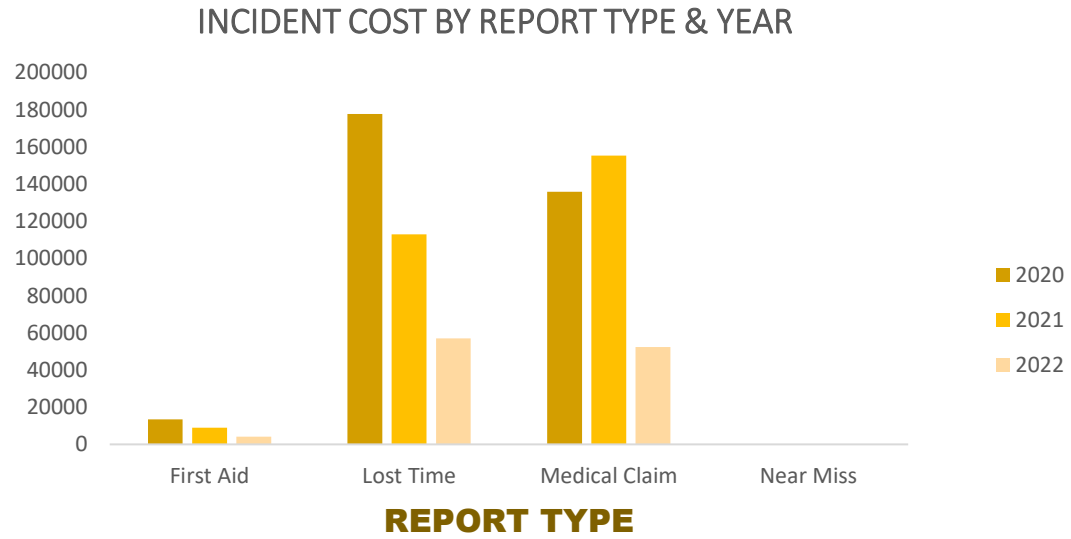
8. Workers participation major role in gender parity. The number of femle worker incident must also be less because of their less participation in the induatries.



9. These two datas are taken as a rate of percentage for comparison. On the first couple of days the percentage of days lost are considerably less where as on the mid days of Tuesday and Wednesday the number of days lost are more. And particularly on Tuesday Monday and Friday the incident cost are considerably high which means if an incident occurs on these days it is more likely to cause more damage.



10. The loss is mainly on the loss of work hours and the medical claim which has to be paid for the incidents and the injury . These show that the material and the human injury are causing more losses for the industries.



Conclusion.

The number of incidents in the last couple of years have been abruptly been decreased and the necessary precautions has to be taken for the industries that have more physical work and reducing the losses by insurance coverage and medical coverage if any occurs and gadgets are to be over concious for the upper parts of body and the legs.