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In [101]: print("NUMERO DE OCORRENCIAS:",df_o.shape[0])
```

NUMERO DE OCORRENCIAS: 30637

```
In [102]: print("NUMERO DE OBRAS:",df.shape[0])
```

NUMERO DE OBRAS: 45446

```
In [97]: #ANALISE DE DADOS
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'''
```

SEPARAMOS NOSSOS DADOS EM DOIS GRUPOS DISTINTOS.

OBRAS

OCORRENCIAS (que nao obras ou que nao geram acionamento da ecorodovias)

ANALISES DOS GRAFICOS:

Podemos ver que o numero de ocorrencias eh praticamente constante independente do dia da semana

porem o numero de obras eh muito menor em finais de semana

Horas com menor quantidade de ocorrencias sao no periodo da madrugada (acompanham diminuicao de fluxo)

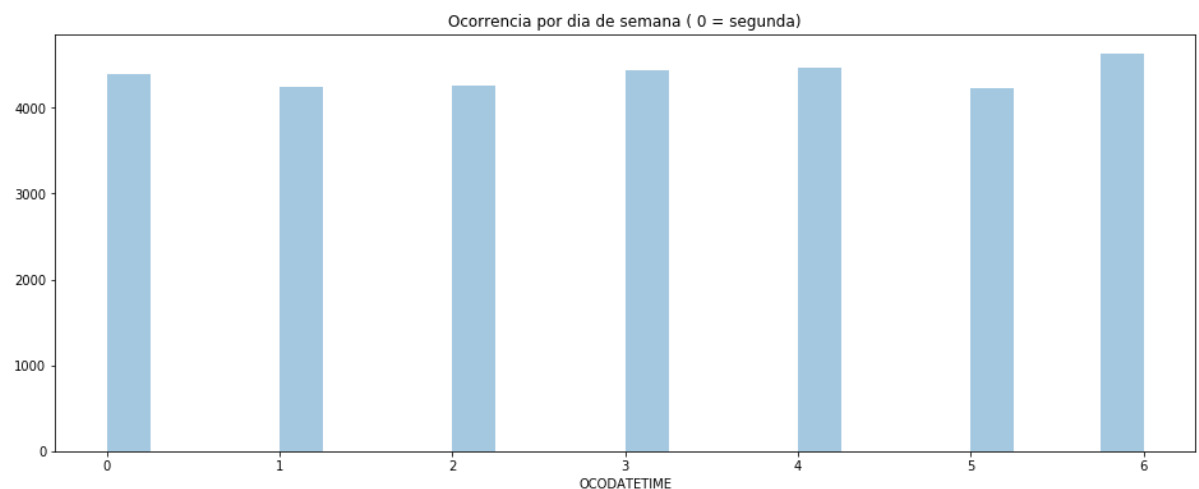
Obras sempre 7-8 da manha ou 21h

As vias com maior quantidade proporcional de obra apresentam menor quantidade proporcional de ocorrencias

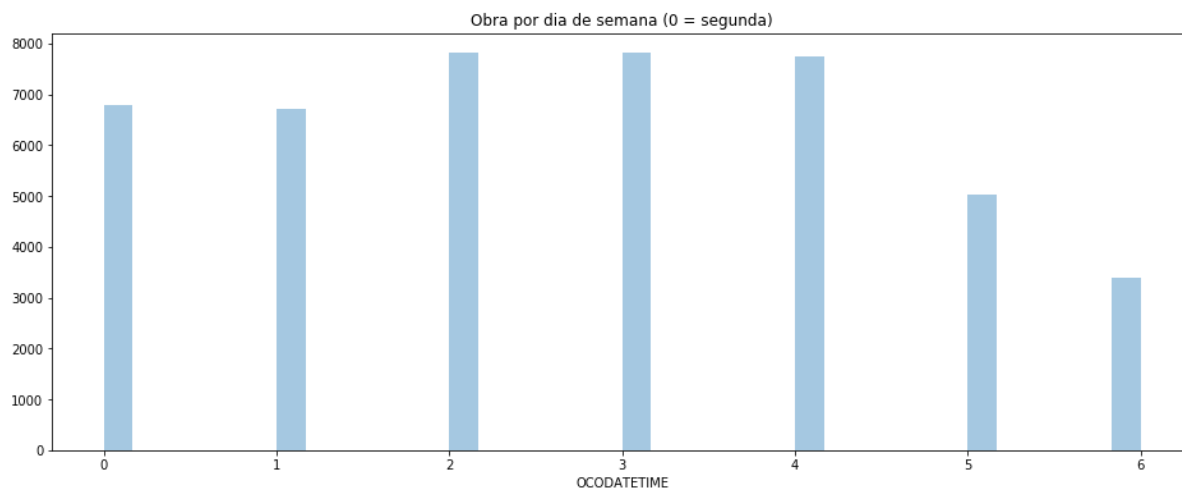
A distribuicao de ocorrencias nas vias eh bem peculiar a cada via e deve ser utilizada para melhor posicionamento das bases/frotas

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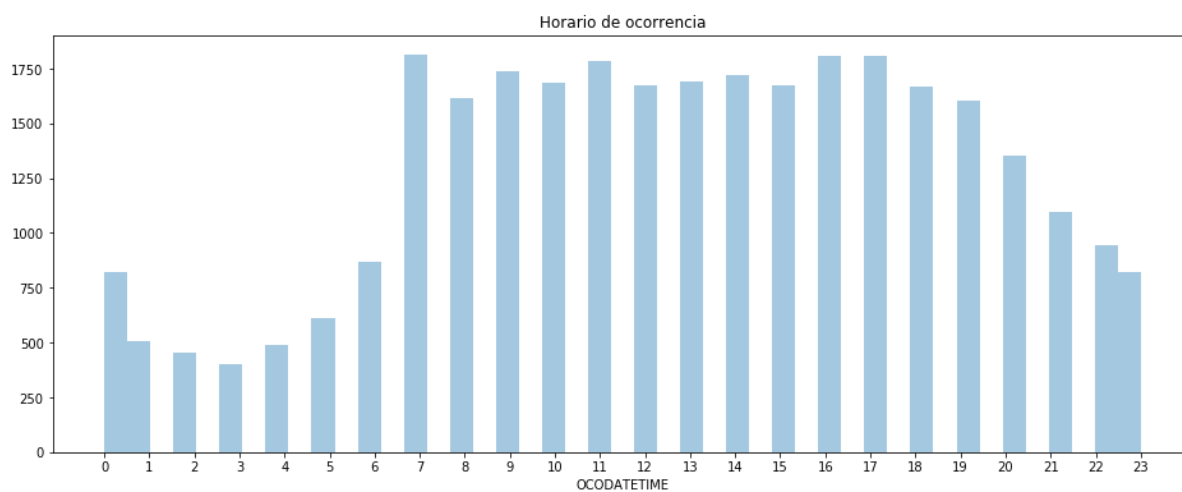
```
In [97]:
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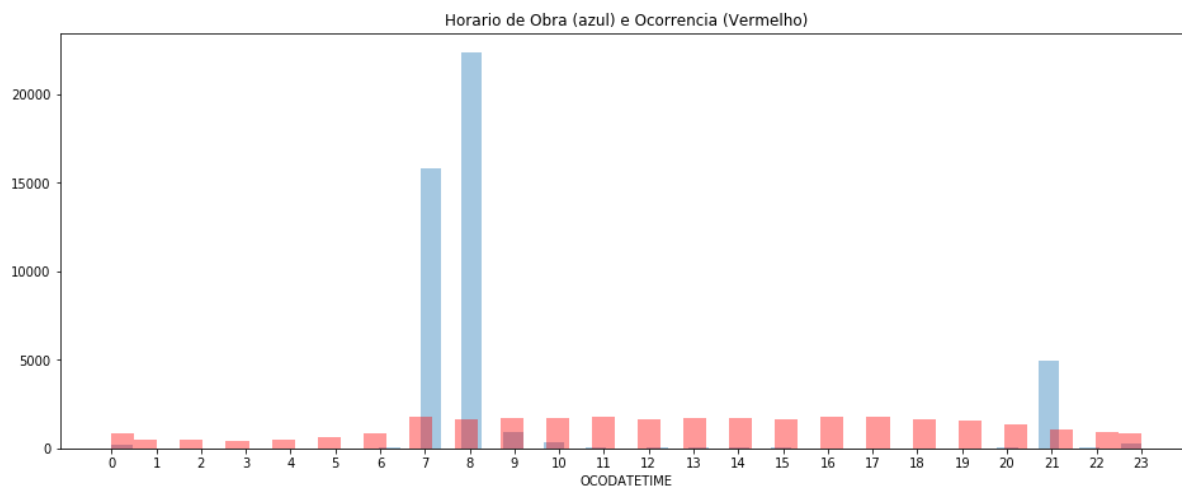
In [98]: *#DIA DA SEMANA:*



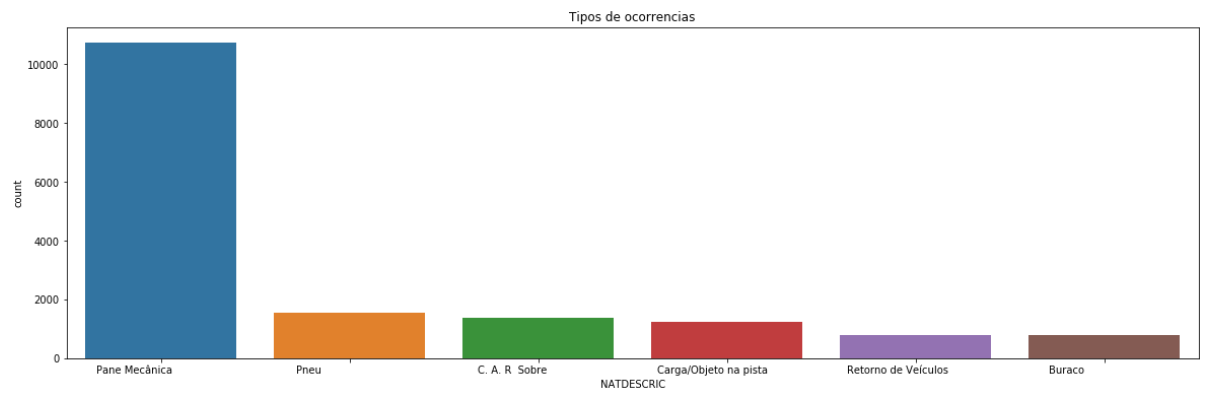
In [76]: *# HORARIOS DE OCORRENCIAS*



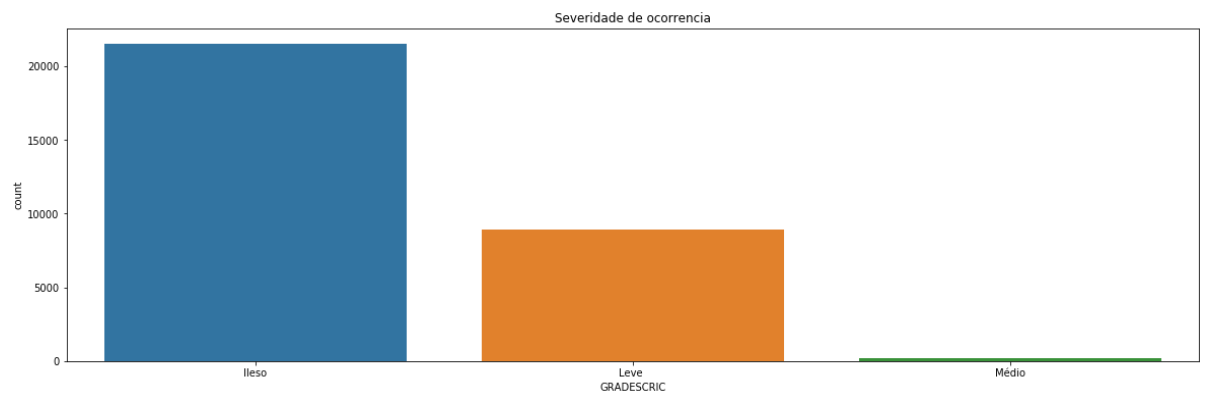
In [75]: *# HORARIOS DE OBRAS E OCORRENCIAS*



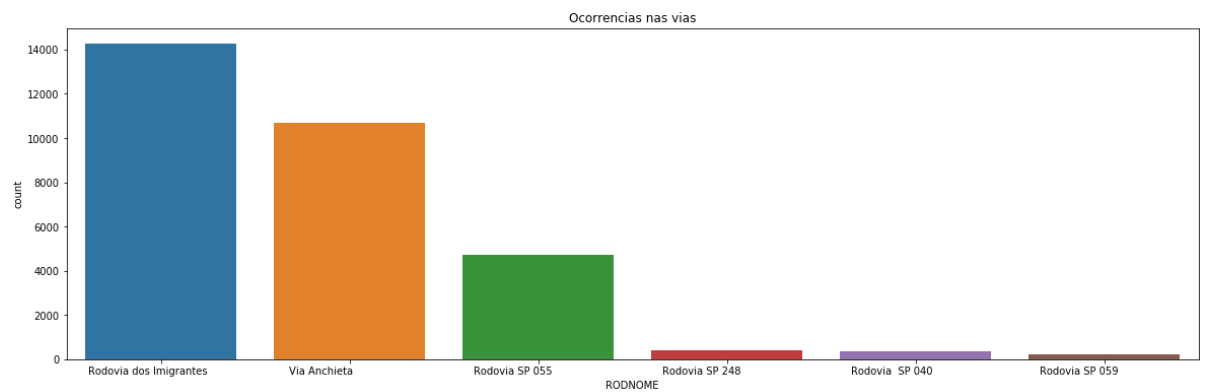
In [78]: *#TIPO DE OCORRENCIA MAIS FREQUENTE*



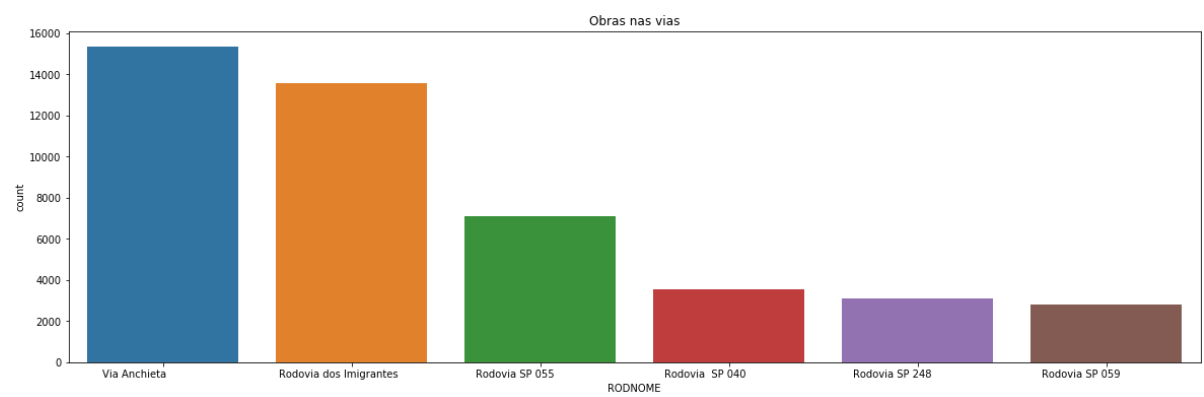
In [80]: *#SEVERIDADE DAS OCORRENCIAS*



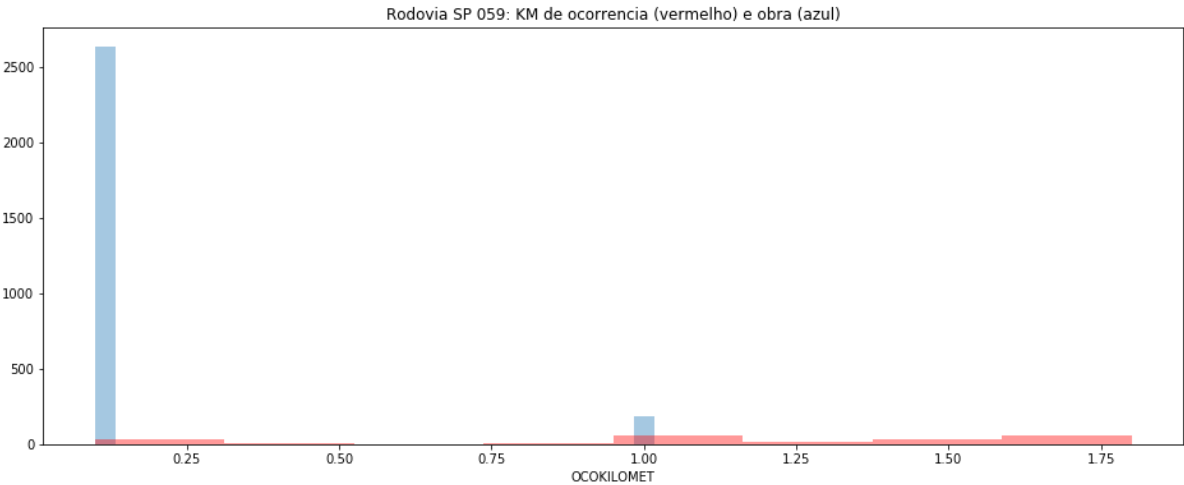
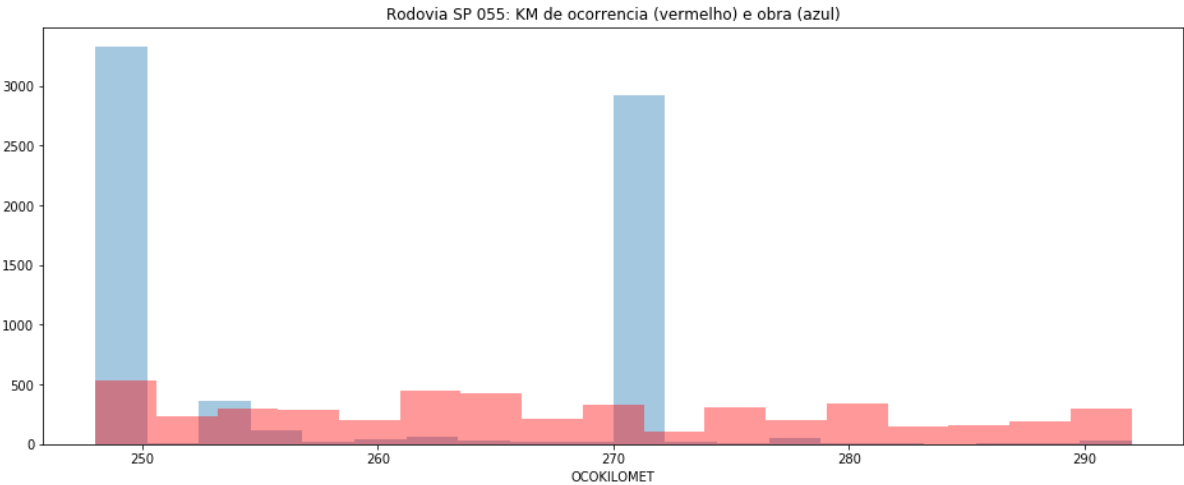
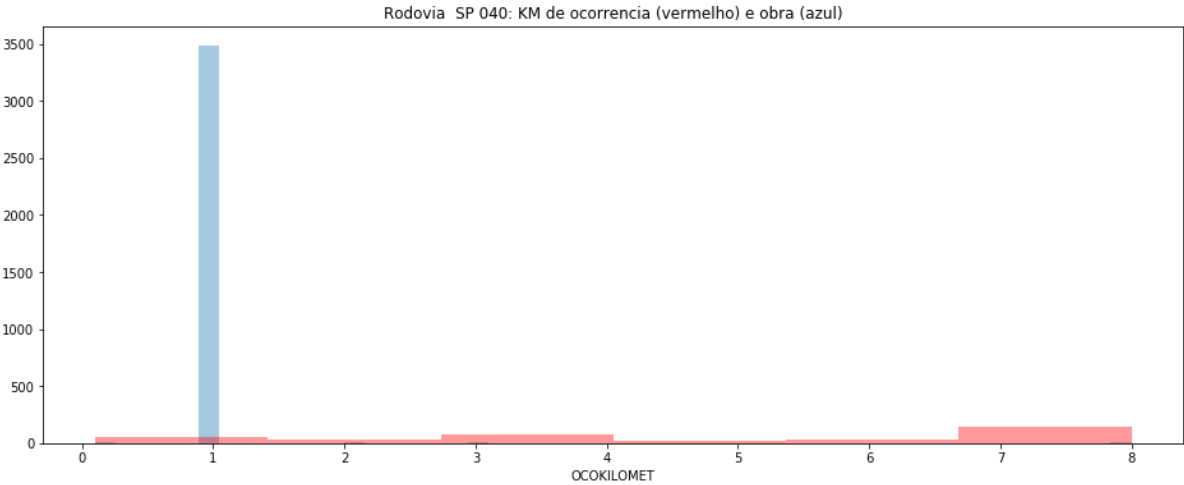
In [81]: *#OCORRENCIAS POR VIA*

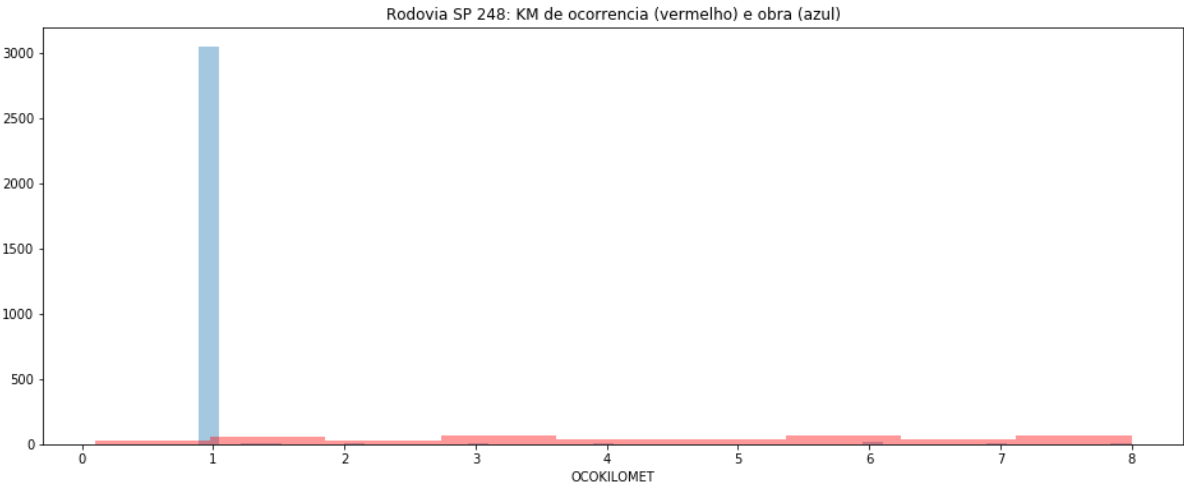
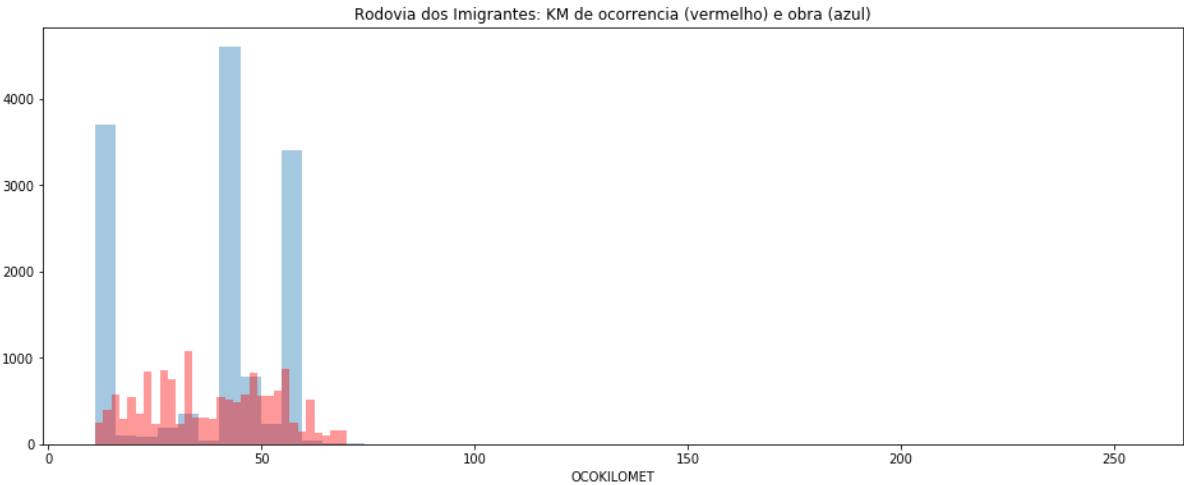
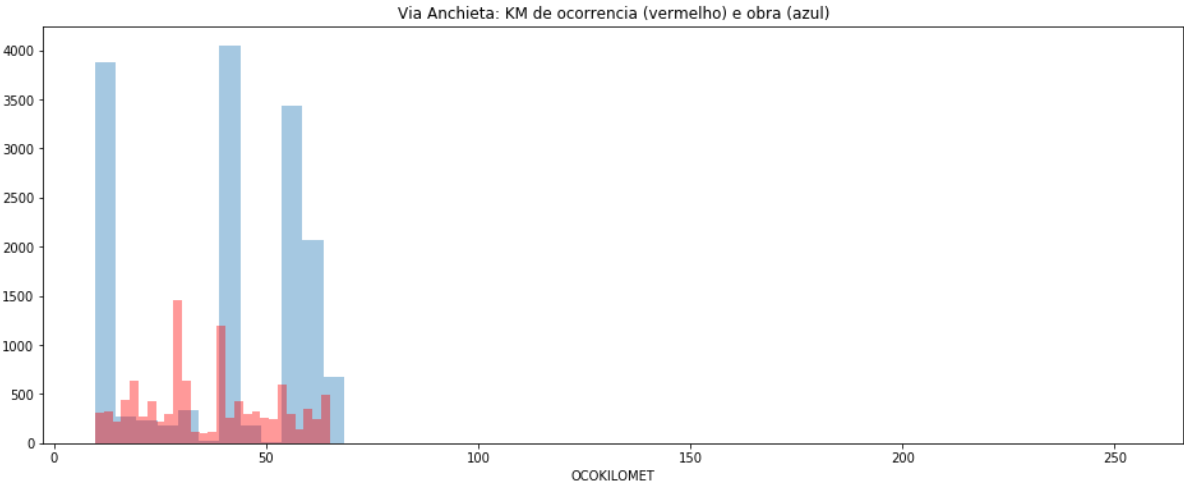


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In [82]: #OBRAS POR VIA
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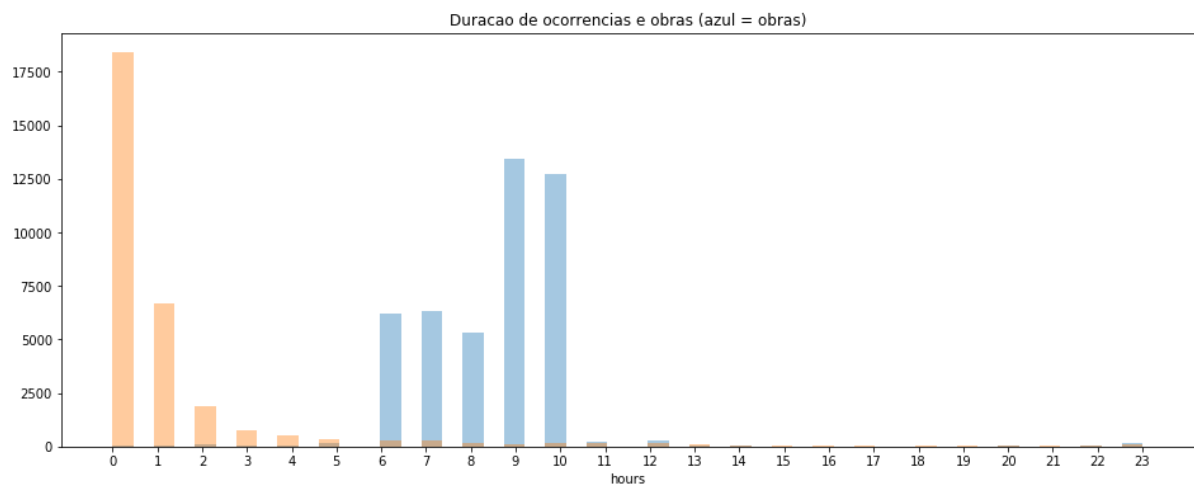


In [96]: ##### OCORRENCIA E OBRAS POR KM DE CADA VIA

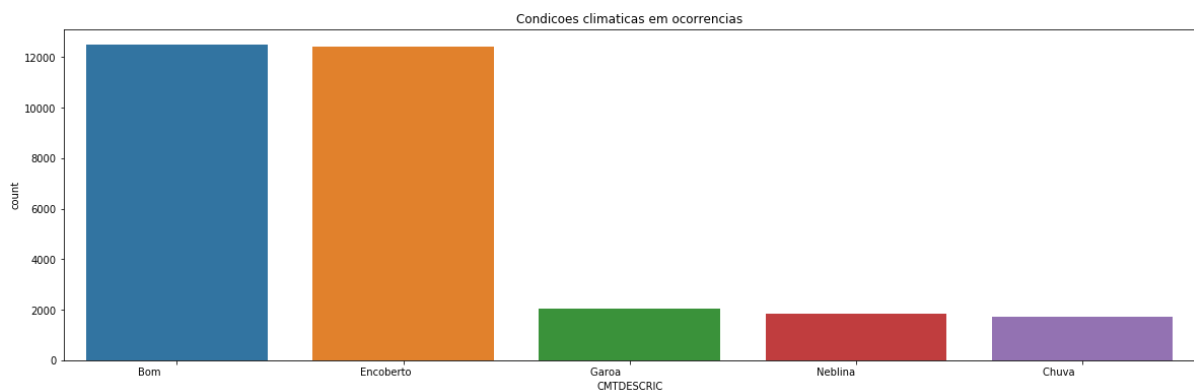




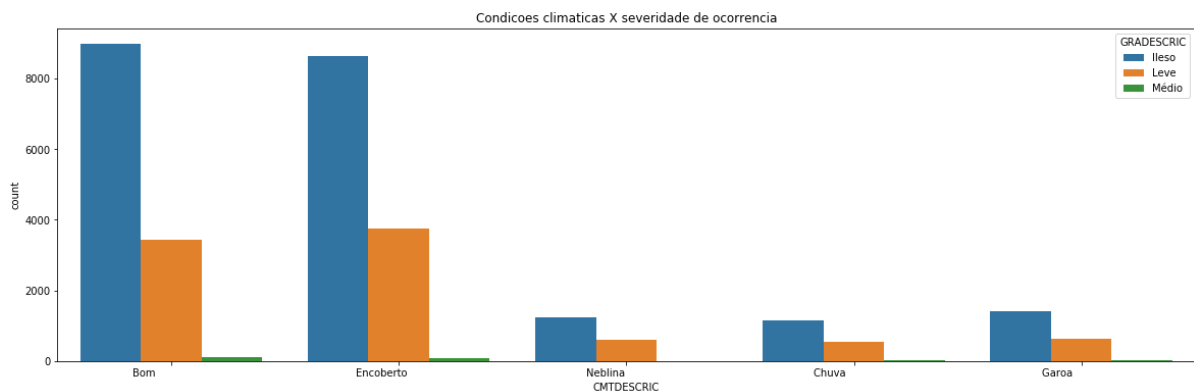
In [95]: *#### DURACAO DE CHAMADOS*



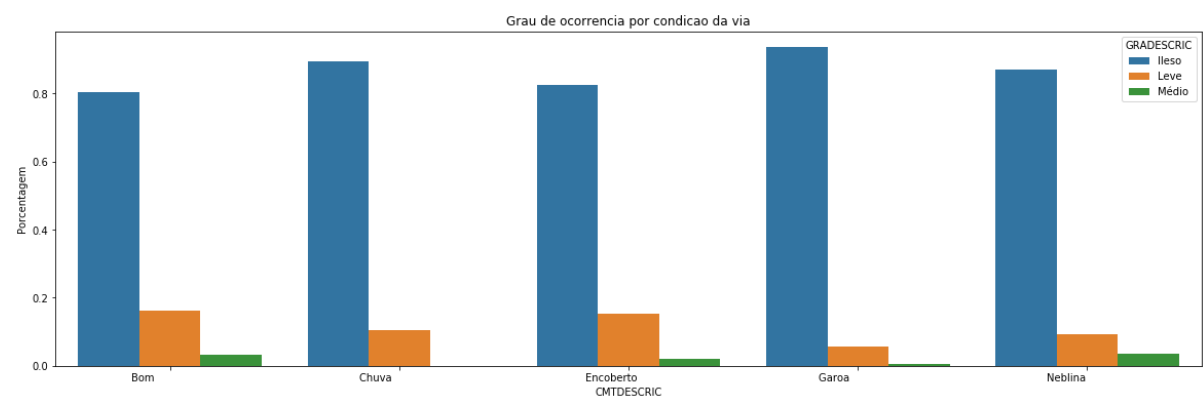
In [85]: *# NUMERO DE OCORRENCIAS POR CONDICAO CLIMATICA*



In [86]: *# GRAU DE OCORRENCIA E CONDICAOES CLIMATICAS*




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In [92]: #Normalizado em cada condicao
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In [ ]:
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