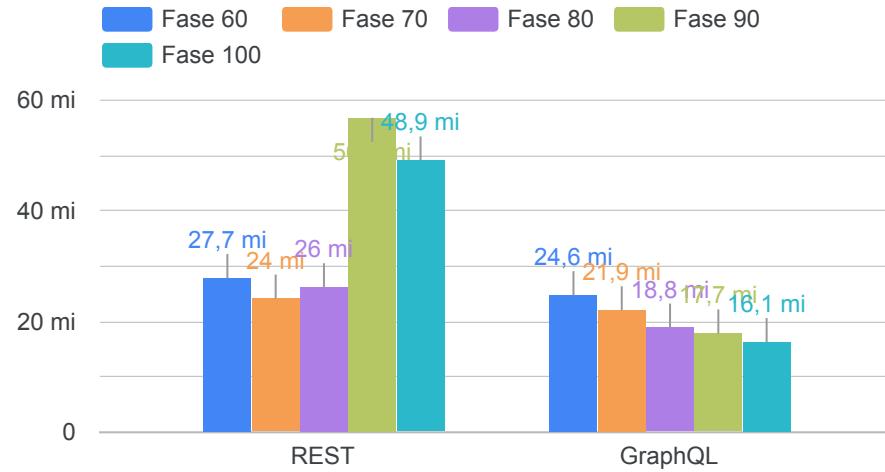
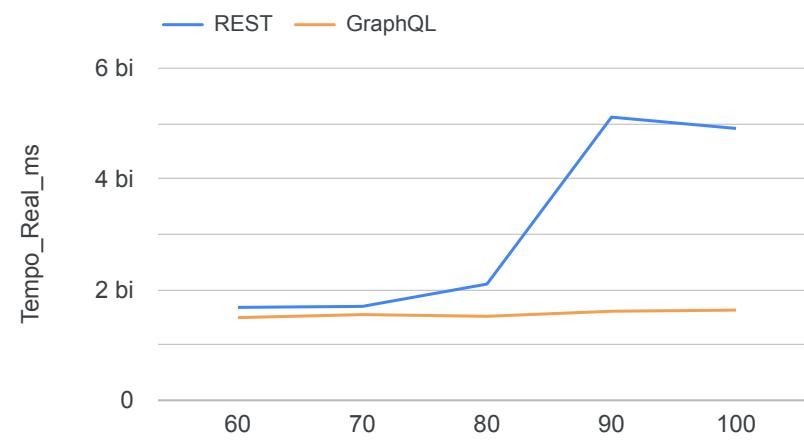


Pergunta: Respostas às consultas GraphQL são mais rápidas que respostas às consultas REST?
Hipótese H1: GraphQL possui tempo de resposta significativamente menor que o REST.

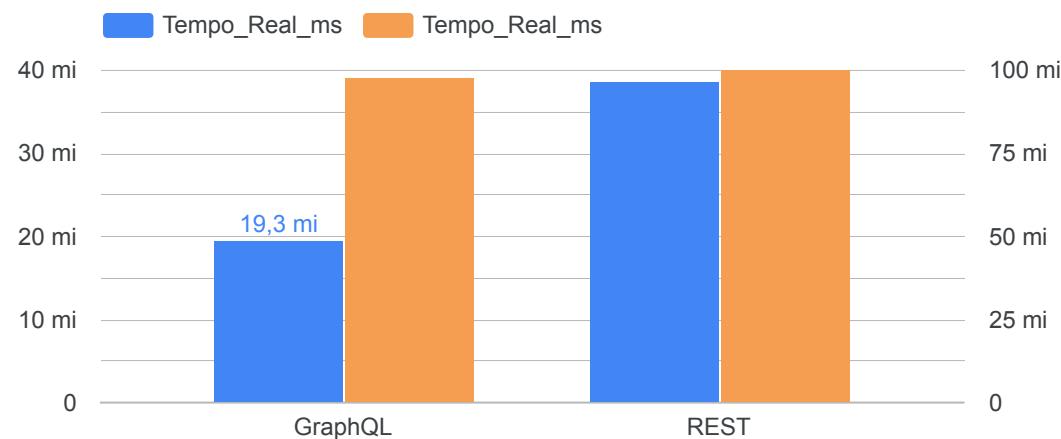
Tempo Médio de Resposta (ms): GraphQL vs REST



Tendência



Média vs Máximo

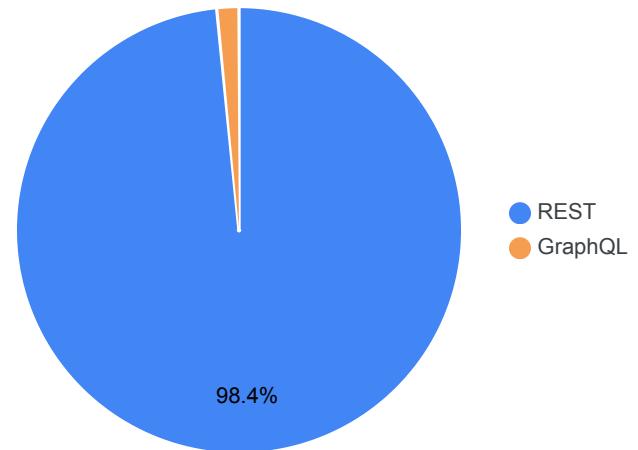


Pergunta: Respostas às consultas GraphQL têm tamanho menor que respostas às consultas REST?
Hipótese H1: GraphQL possui tamanho significativamente menor que o REST

Histograma de Tamanho (Pequeno vs Gigante)

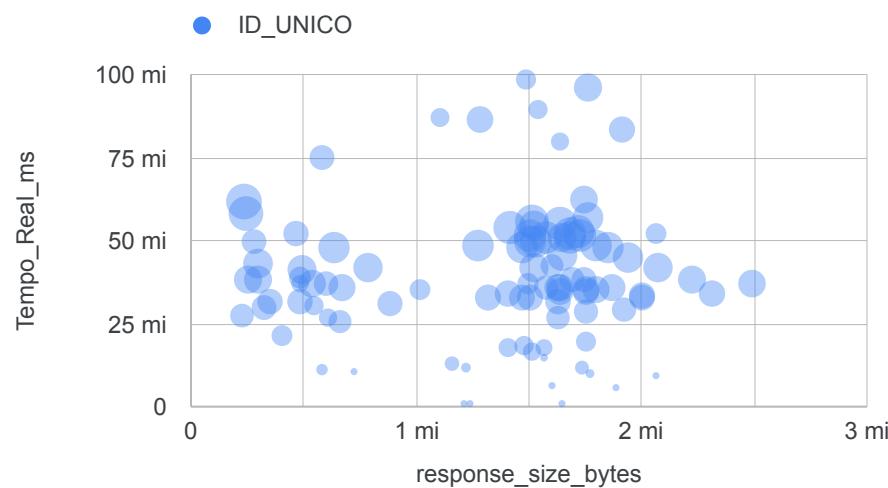


Consumo Total de Banda (Bytes)



Análise de Correlação: Tamanho do Payload vs. Tempo de Resposta

REST (Até 3 Milhões de Bytes)



GraphQL (Até 40 Mil Bytes)

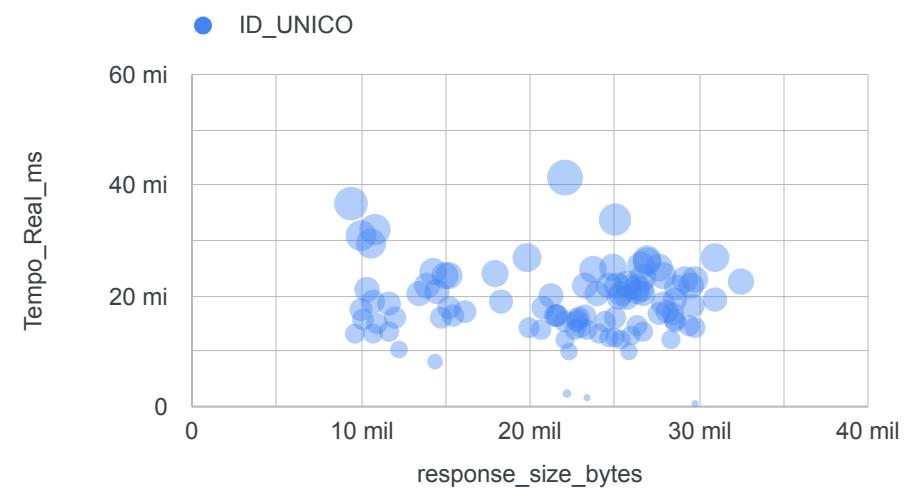


Tabela de GRAPHQL vs REST (Fase 60)

api_type	response_time_ms	response_size_bytes	num_requests
1. REST	17.654.084.280.898.480	1.343.240,82	857
2. GraphQL	11.931.509.807.532.938	21.259,63	60

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Tabela de GRAPHQL vs REST (Fase 70)

api_type	response_time_ms	response_size_bytes	num_requests
1. REST	15.591.261.406.896.564	1.365.529,19	1.017
2. GraphQL	13.228.054.634.151.320	21.703,26	70

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Tabela de GRAPHQL vs REST (Fase 80)

api_type	response_time_ms	response_size_bytes	num_requests
1. REST	15.608.549.741.047.864	1.305.859,11	1.140
2. GraphQL	16.714.676.927.819.264	21.603,15	80

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Tabela de GRAPHQL vs REST (Fase 90)

api_type	response_time_ms	response_size_bytes	num_requests
1. REST	11.127.746.401.957.638	1.334.408,13	1.306
2. GraphQL	12.052.884.705.883.924	21.951,48	90

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Tabela de GRAPHQL vs REST (Fase 100)

api_type	response_time_ms	response_size_bytes	num_requests
1. REST	9.714.288.529.883.084	1.343.933,65	1.465
2. GraphQL	12.985.237.288.098.440	22.057,33	100

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Tabela de GRAPHQL vs REST

api_type	response_size_bytes	num_requests	Tempo_Real_ms
1. REST	1.337.850,8	5.785	38.537.987,13
2. GraphQL	21.761,06	400	19.277.129,78

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