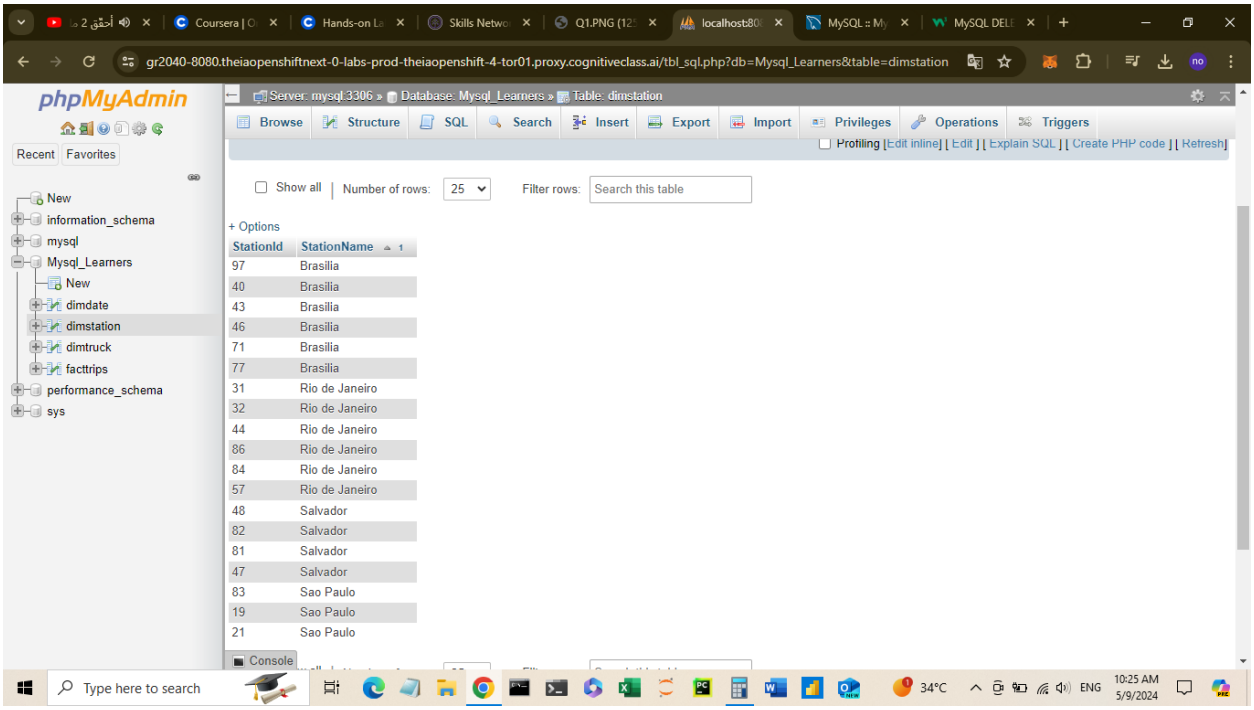
Execute SQL Queries

Exercise 1: List all stations in an alphabetical order. Output should contain StationId, StationName.

Select StationId, StationName

From dimstation

Order by StationName asc

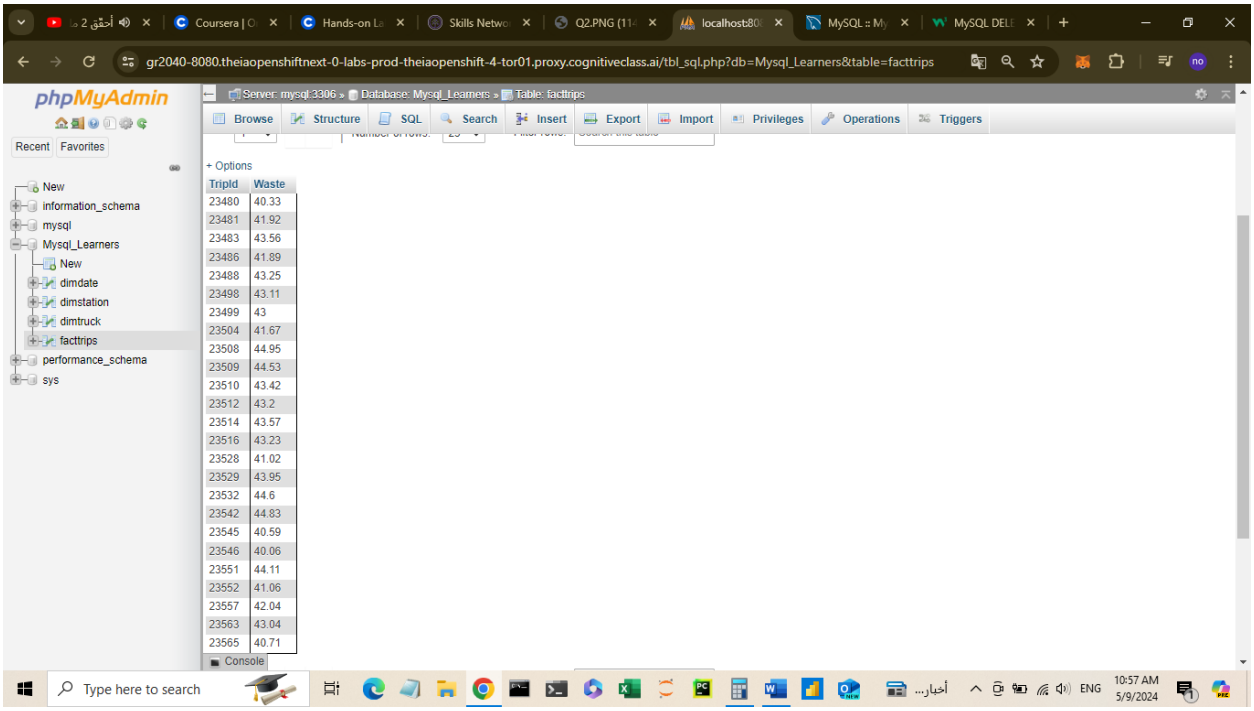


Exercise 2: List all trips that collected waste > 40. Output should contain TripId, Waste.

Select TripId, Waste

From facttrips

Where Waste > 40

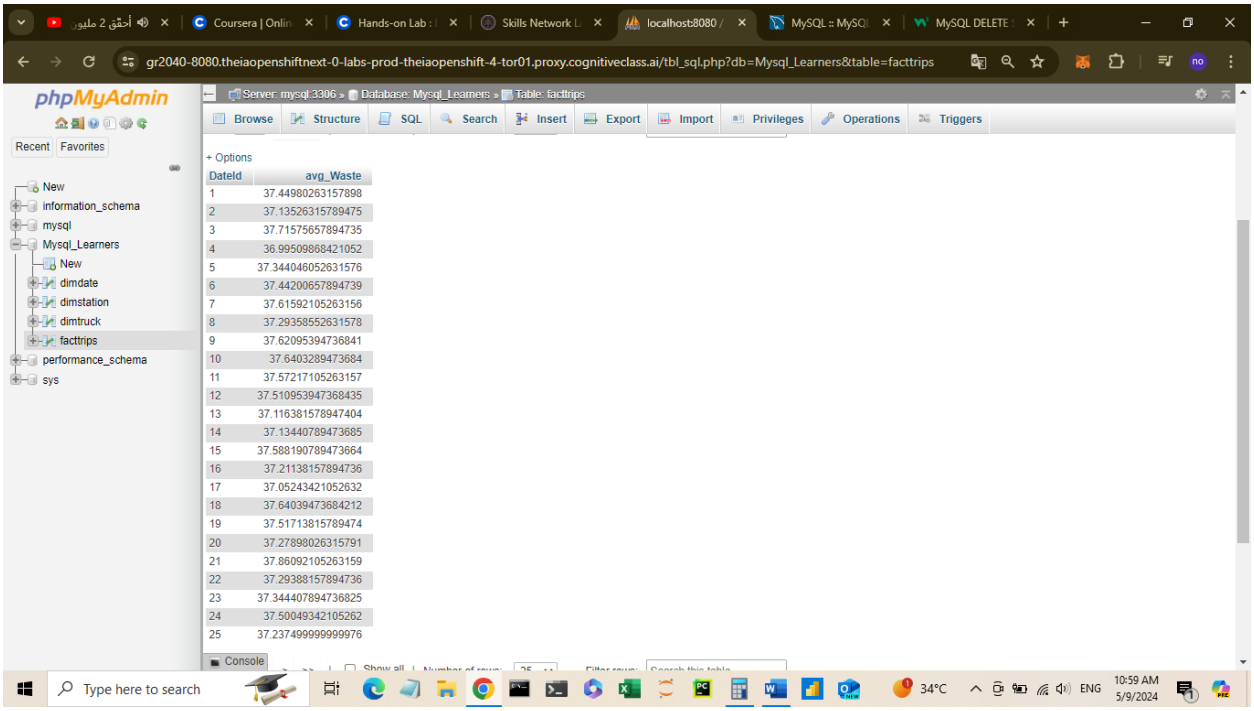


Exercise 3: List average waste collected for each date. Output should contain DateId, average waste.

Select DateId, AVG(Waste) as avg_Waste

From facttrips

Group by DateId

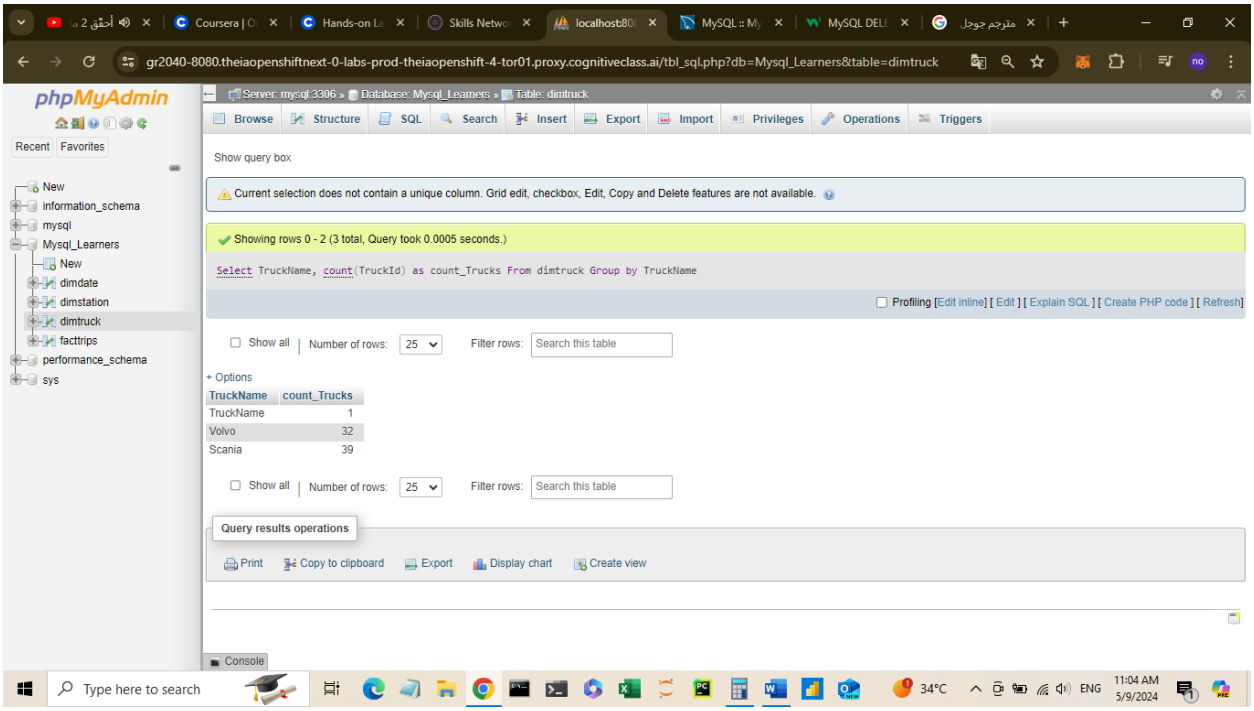


Exercise 4: List truck Names with their count. Output should contain TruckName, count

Select TruckName, count(TruckId) as count_Trucks

From dimtruck

Group by TruckName



Exercise 5: List City with total waste collected. Output should contain CityName, total_Waste

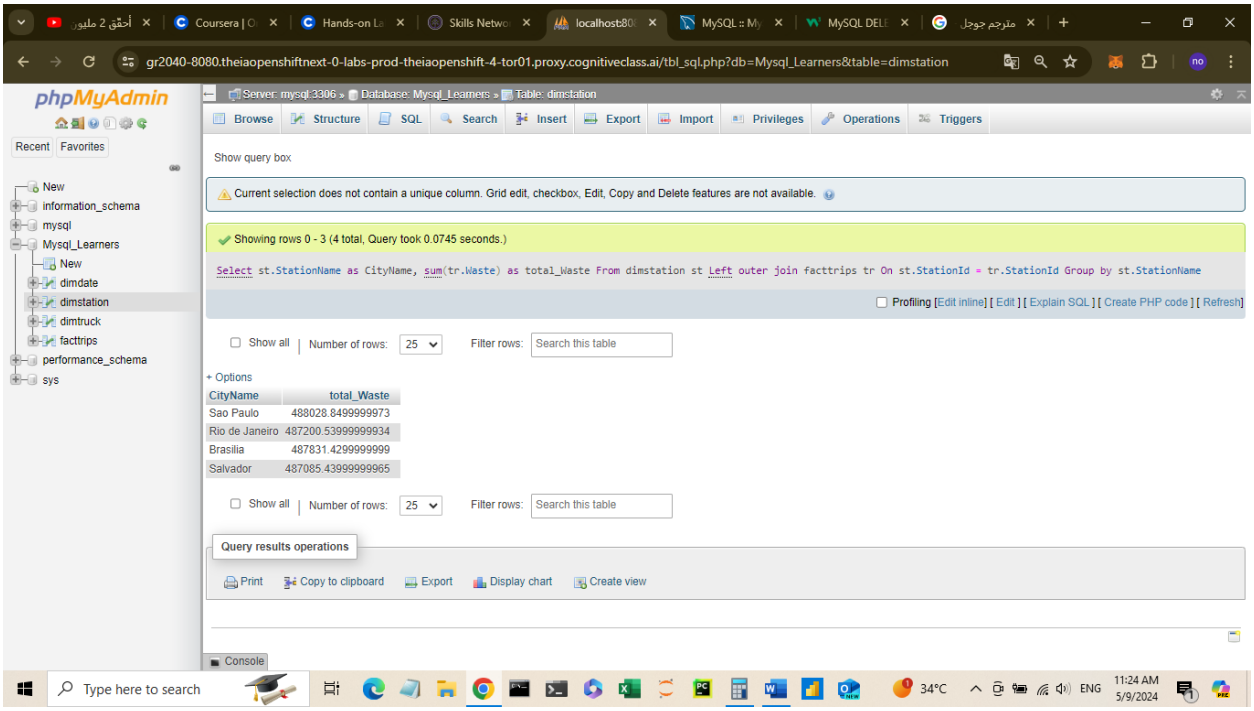
Select st.StationName as CityName, sum(tr.Waste) as total_Waste

From dimstation st

Left outer join facttrips tr

On st.StationId = tr.StationId

Group by st.StationName



Exercise 6: List minimum waste collected per quarter in 2019. Output should contain QuarterName, minimum waste.

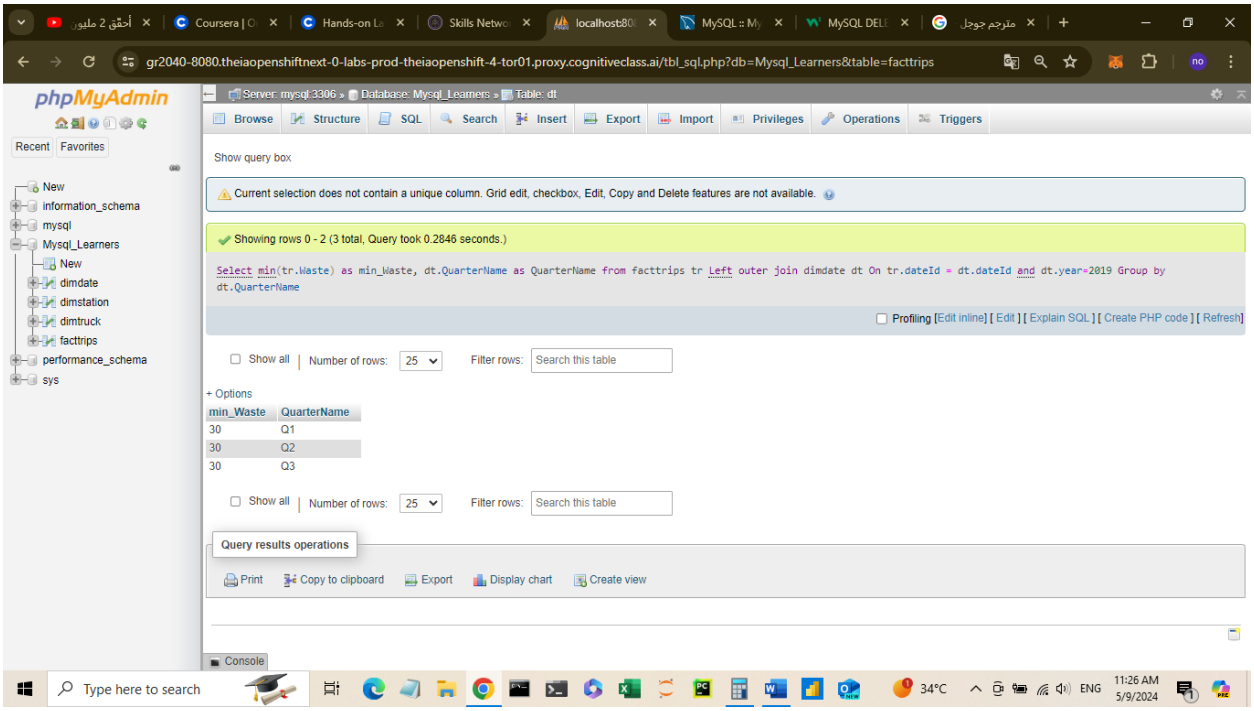
Select min(tr.Waste) as min_Waste, dt.QuarterName as QuarterName

from facttrips tr

Left outer join dimdate dt

On tr.dateId = dt.dateId and dt.year=2019

Group by dt.QuarterName



Exercise 7: List maximum waste collected in Q1 in Sao Paulo. Output should contain QuarterName, City, maximum Waste.

Select dt.QuarterName, st.StationName, max(tr.Waste) as max_Waste

From facttrips tr

Left outer join dimstation st

On tr.StationId = st.StationId

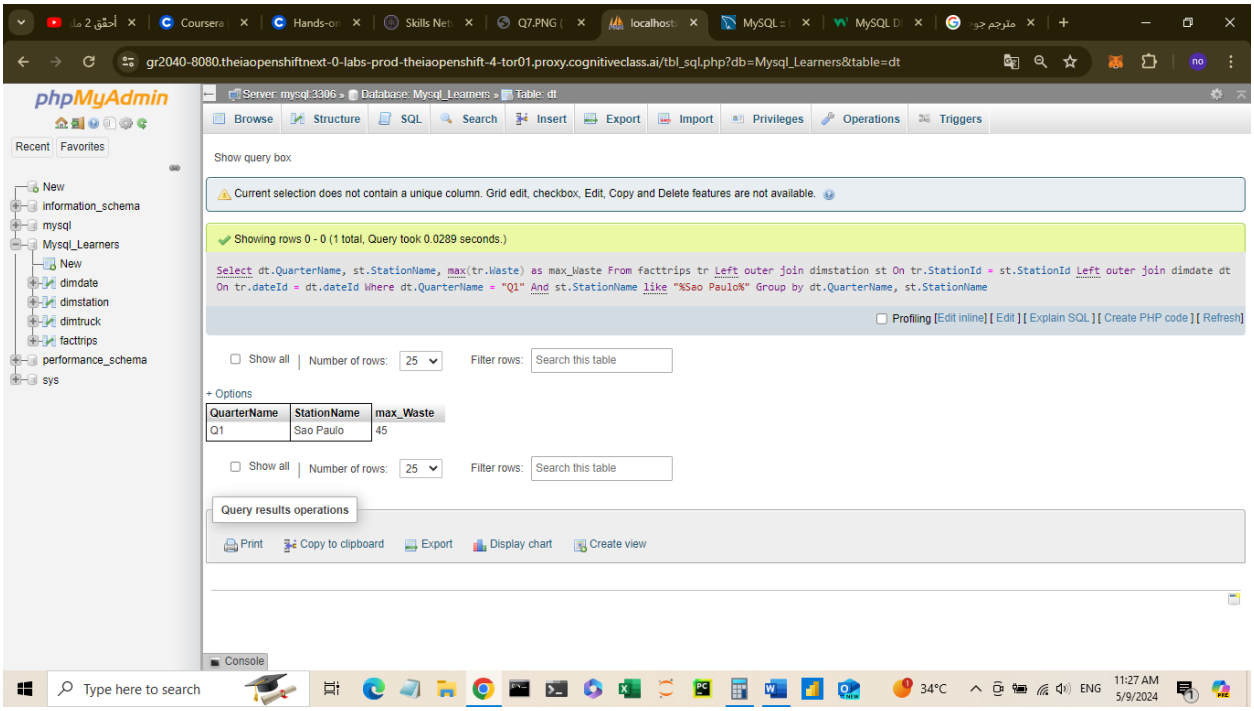
Left outer join dimdate dt

On tr.dateId = dt.dateId

Where dt.QuarterName = "Q1"

And st.StationName like "%Sao Paulo%"

Group by dt.QuarterName, st.StationName



Exercise 8: List the days of the week results in the highest average waste collected by Volvo trucks. Output should contain WeekDayName, TruckName, avg_Waste.

Select dt.WeekDayName, tru.truckName, AVG(tr.Waste) as avg_Waste

From facttrips tr

Left outer join dimtruck tru

On tr.TruckId = tru.TruckId

Left outer join dimdate dt

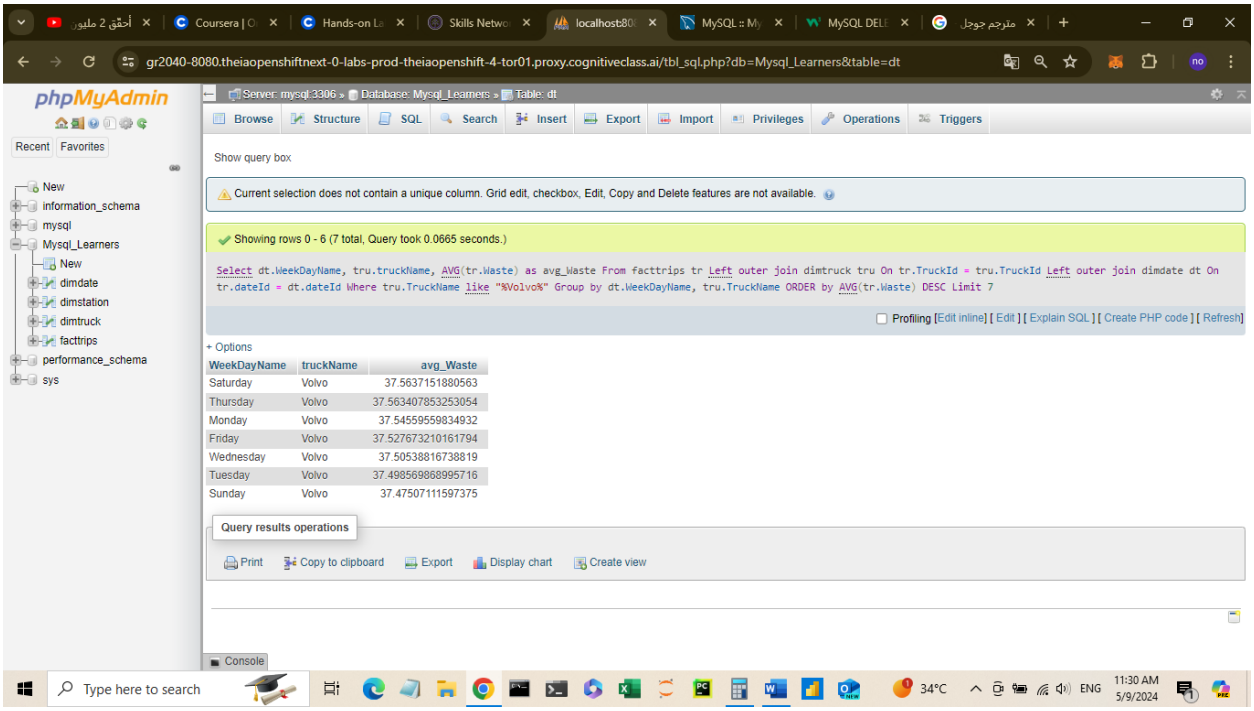
On tr.dateId = dt.dateId

Where tru.TruckName like "%Volvo%"

Group by dt.WeekDayName, tru.TruckName

ORDER by AVG(tr.Waste)

DESC Limit 7



Exercise 9: List the dates when each city collected its maximum Waste. Output should contain city, date, maximum Waste.

Select st.StationName as city, dt.date, a.waste

From (

Select StationId, DateId, Waste, rank() over (partition by StationId order by Waste desc) as rnk

From facttrips) a

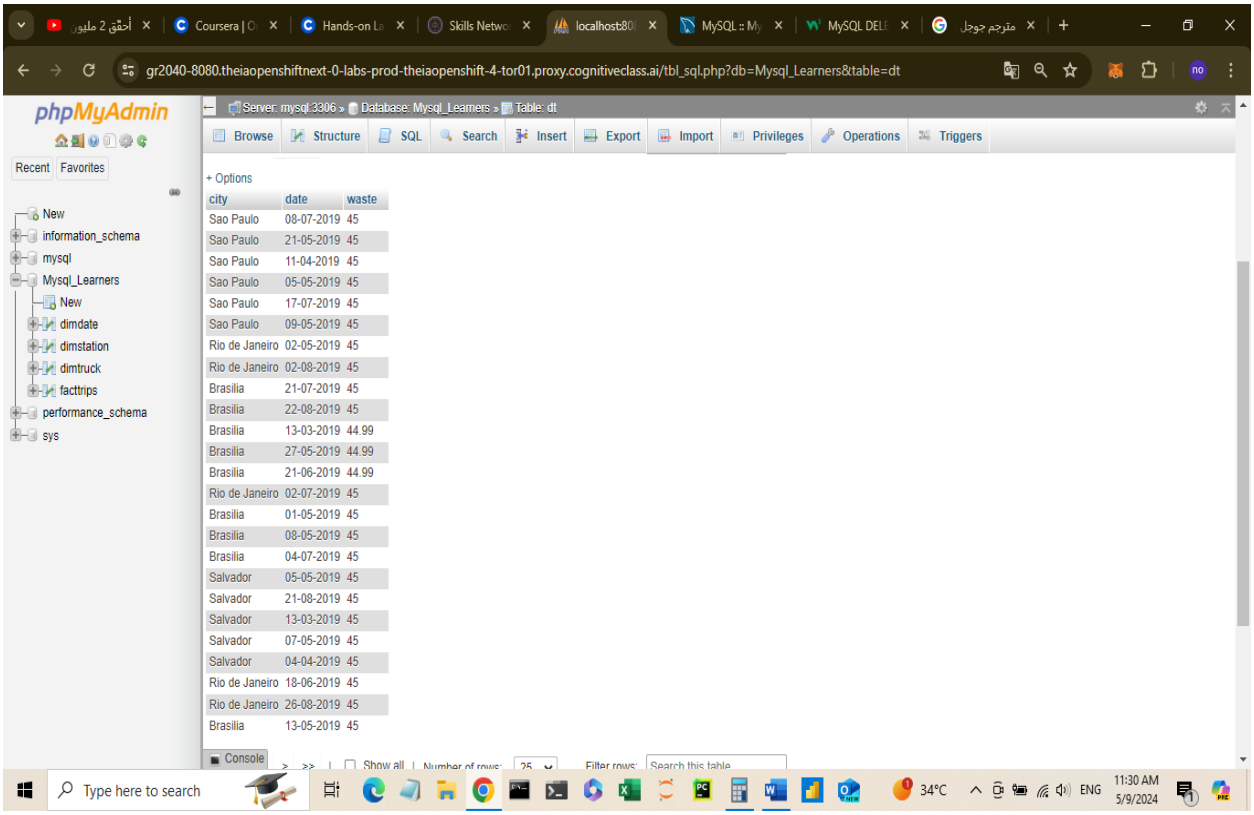
Left outer join dimdate dt

On a.DateId = dt.DateId

Left outer join dimstation st

On a.StationId = st.StationId

Where a.rnk = 1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dimtruck
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city date waste
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Sao Paulo 21-05-2019 45
Sao Paulo 11-04-2019 45
Sao Paulo 05-05-2019 45
Sao Paulo 17-07-2019 45
Sao Paulo 09-05-2019 45
Rio de Janeiro 02-05-2019 45
Rio de Janeiro 02-08-2019 45
Brasilia 21-07-2019 45
Brasilia 22-08-2019 45
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Brasilia 21-06-2019 44.99
Rio de Janeiro 02-07-2019 45
Brasilia 01-05-2019 45
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