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CSC 4710

6 December 2017

Project Answers

1. Query:

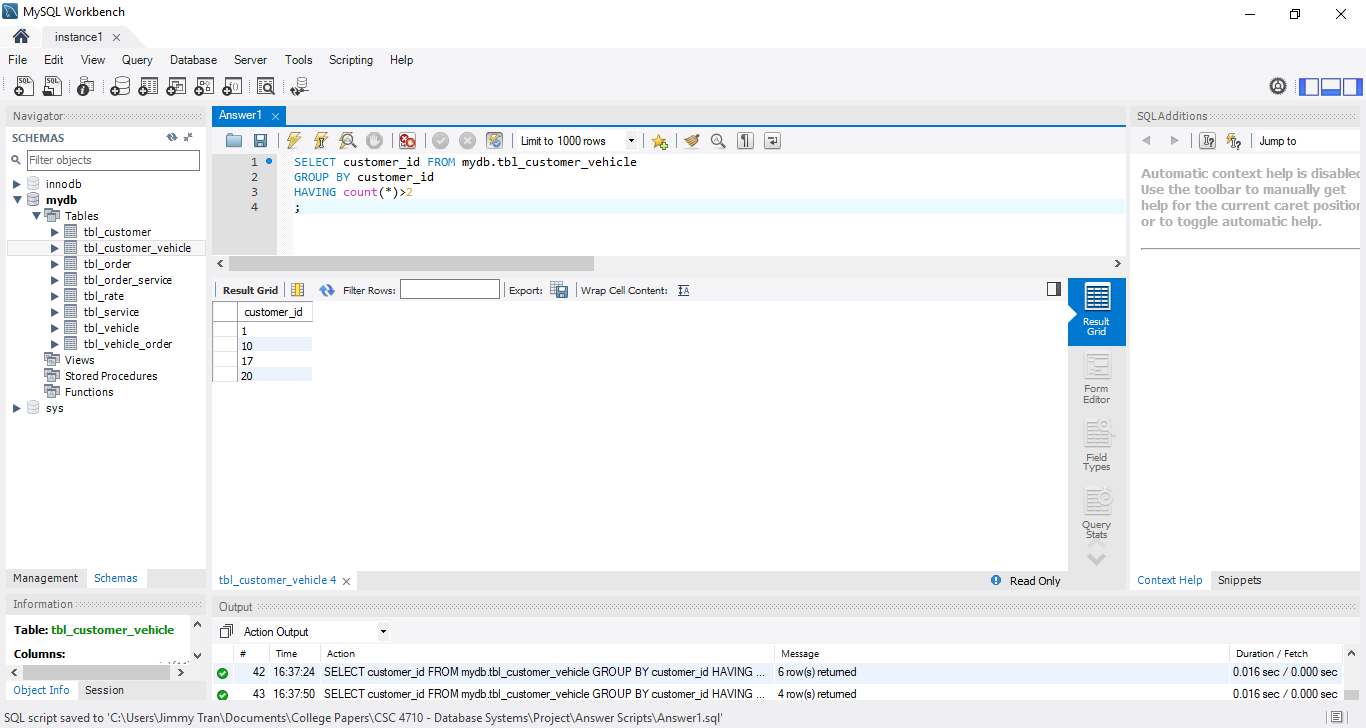
SELECT customer\_id FROM mydb.tbl\_customer\_vehicle

GROUP BY customer\_id

HAVING count(\*)>2

;

Screenshot:



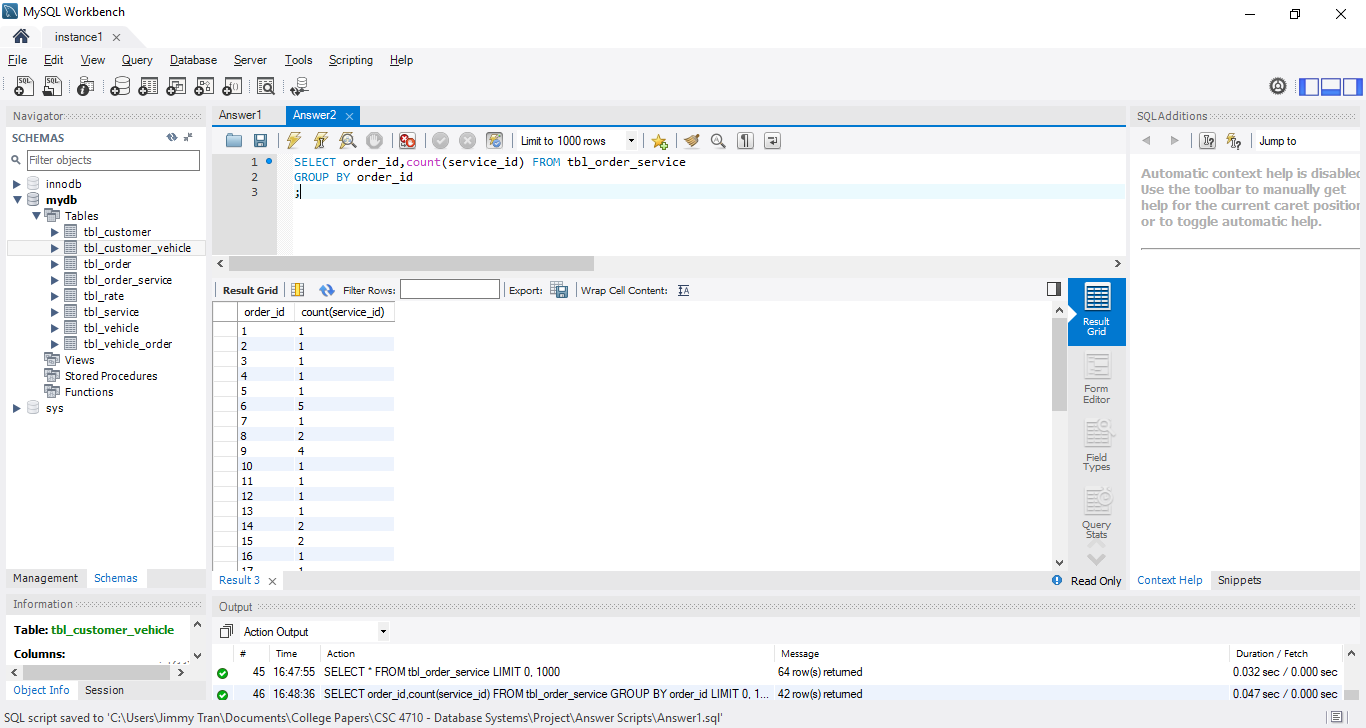
2. Query:

SELECT order\_id,count(service\_id) FROM tbl\_order\_service

GROUP BY order\_id

;

Screenshot:



3. Query:

SELECT tbl\_customer.first\_name,tbl\_customer.last\_name

FROM tbl\_customer\_vehicle

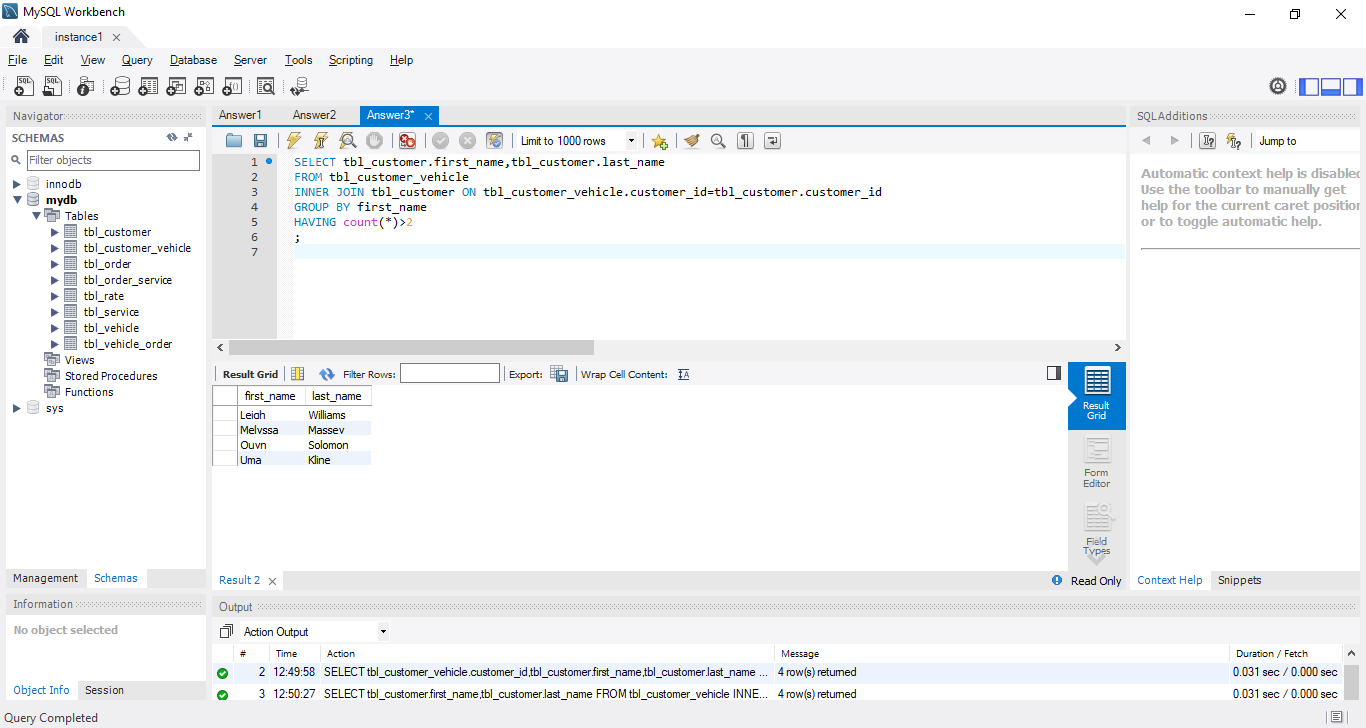
INNER JOIN tbl\_customer ON tbl\_customer\_vehicle.customer\_id=tbl\_customer.customer\_id

GROUP BY first\_name

HAVING count(\*)>2

;

Screenshot:



4. Query:

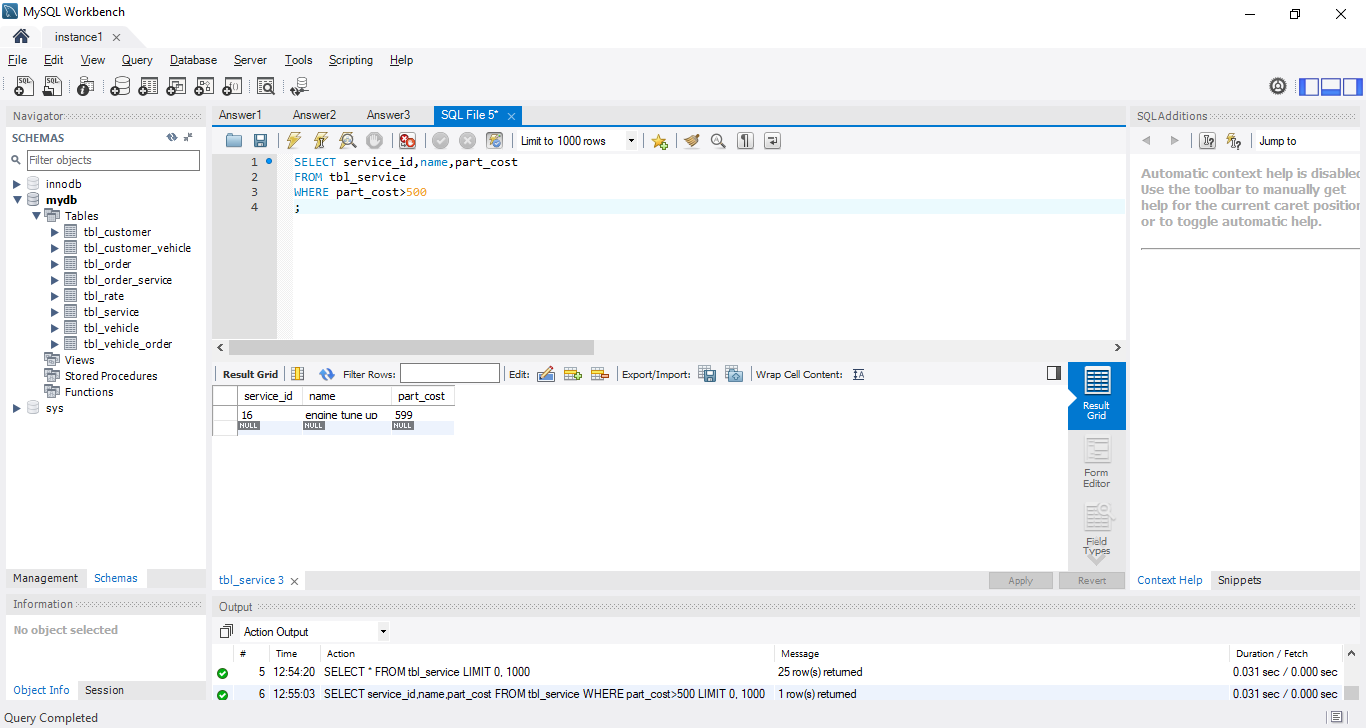
SELECT service\_id,name,part\_cost

FROM tbl\_service

WHERE part\_cost>500

;

Screenshot:



5. Query:

SELECT tbl\_service.service\_id, tbl\_service.name, COUNT(tbl\_order\_service.service\_id), tbl\_service.part\_cost\*COUNT(tbl\_order\_service.service\_id)

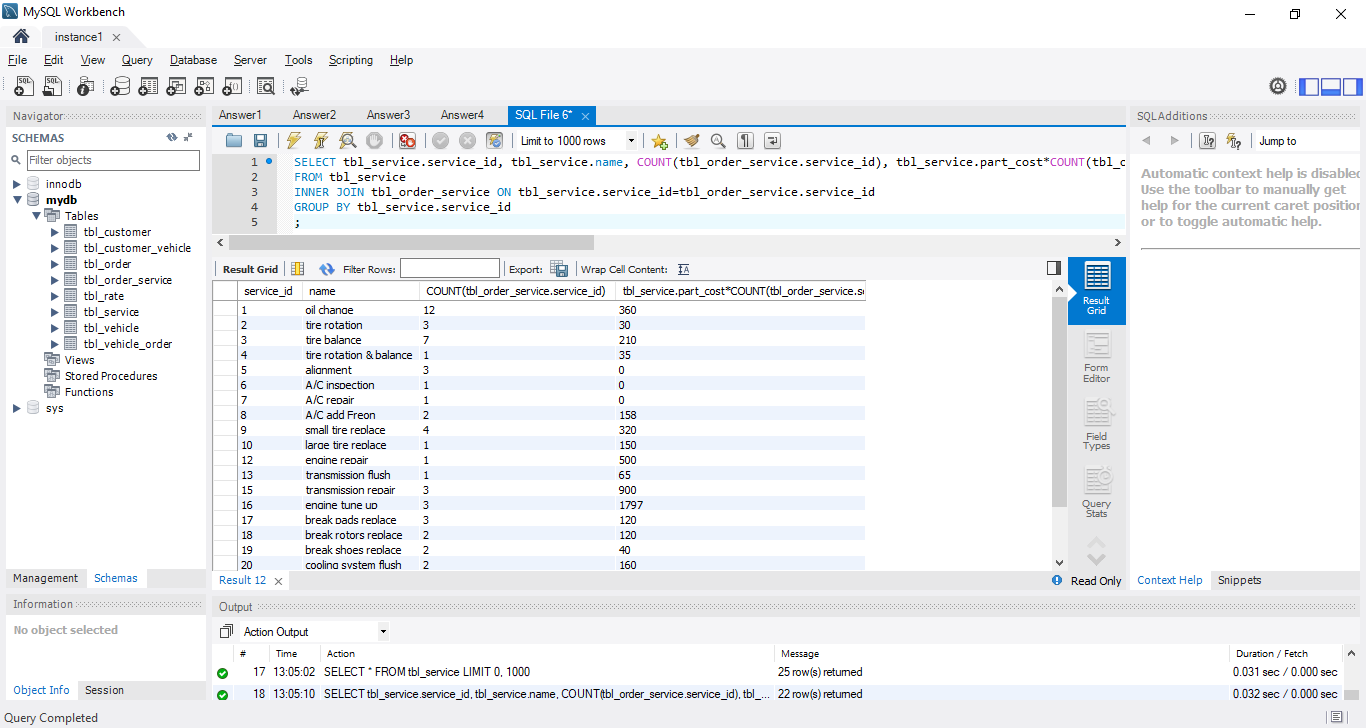
FROM tbl\_service

INNER JOIN tbl\_order\_service ON tbl\_service.service\_id=tbl\_order\_service.service\_id

GROUP BY tbl\_service.service\_id

;

Screenshot:



6. Query:

SELECT cus.first\_name, cus.last\_name, costSum.customer\_id, costSum.costCount from

(

SELECT customer\_id, sum(cost) AS costCount

FROM

(

SELECT cu.customer\_id,(part\_cost+labor\_hour\*labor\_cost\_per\_hour) AS cost

FROM tbl\_customer\_vehicle AS cu

LEFT JOIN tbl\_vehicle\_order AS ve ON ve.vehicle\_id = cu.vehicle\_id

LEFT JOIN tbl\_order\_service AS ord ON ord.order\_id = ve.order\_id

LEFT JOIN tbl\_service AS se ON se.service\_id = ord.service\_id

LEFT JOIN tbl\_rate AS ra ON ra.rate\_id = se.rate\_id

) AS customerCost

GROUP BY customer\_id

) AS costSum

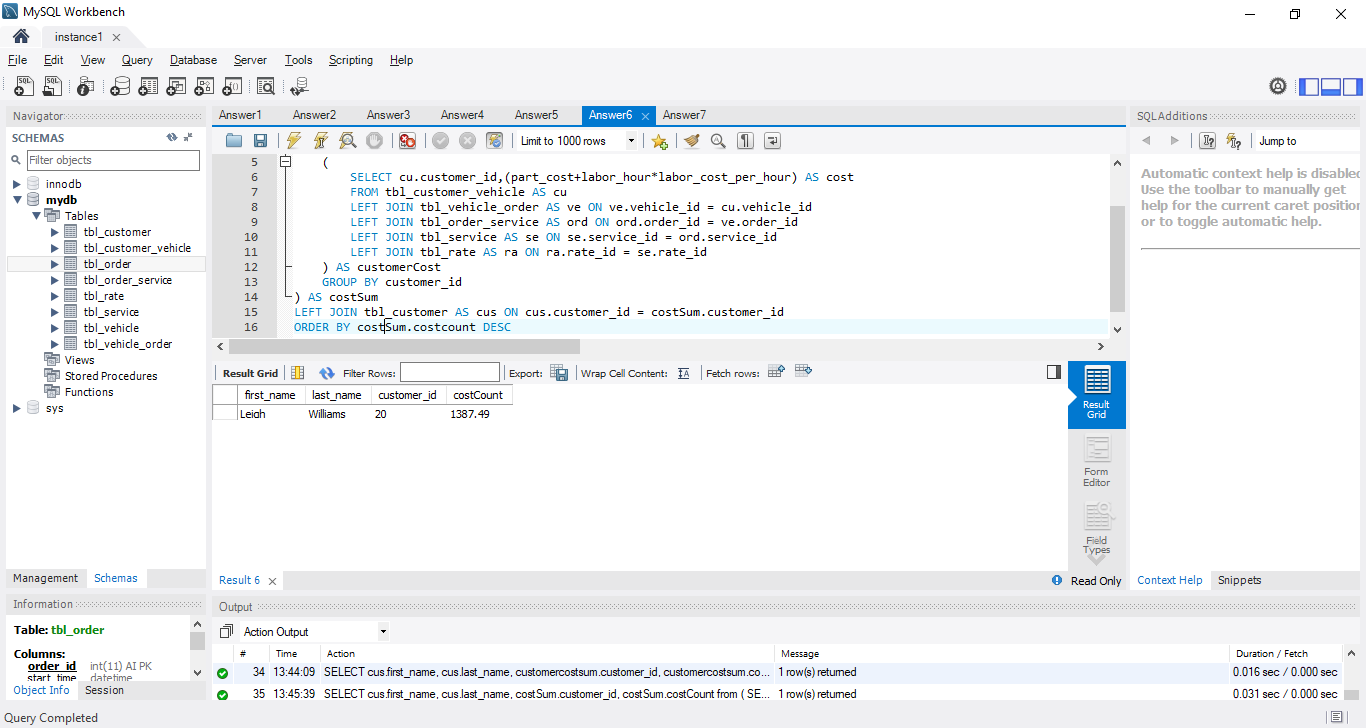
LEFT JOIN tbl\_customer AS cus ON cus.customer\_id = costSum.customer\_id

ORDER BY costSum.costcount DESC

LIMIT 1

;

Screenshot:



7. Query:

SELECT ve.vehicle\_id,ve.year,ve.make,ve.model,ve.mileage,vehicleTotalCost.orderNumber,vehicleTotalCost.vehicleSum

FROM tbl\_vehicle AS ve

LEFT JOIN

(SELECT vehicleTotal.vehicle\_id, COUNT(vehicleTotal.order\_id) AS orderNumber,SUM(vehicleTotal.cost) AS vehicleSum

FROM(

SELECT veor.vehicle\_id,veor.order\_id,(part\_cost+labor\_hour\*labor\_cost\_per\_hour) AS cost

FROM tbl\_vehicle\_order AS veor

LEFT JOIN tbl\_order\_service AS orse ON orse.order\_id=veor.order\_id

LEFT JOIN tbl\_service AS se ON se.service\_id=orse.service\_id

LEFT JOIN tbl\_rate AS ra ON ra.rate\_id=se.rate\_id

)AS vehicleTotal

GROUP BY vehicleTotal.vehicle\_id

)AS vehicleTotalCost on vehicleTotalCost.vehicle\_id=ve.vehicle\_id

;

Screenshot:

