**HW Assignment 1 (15 points)**

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**Answer the following questions and submit in pdf or word document on blackboard.**

1. Write a Query to find the titles and vid\_length whose title starts with an “A” and whose length is more than 2 hours, from the video\_video table.

select title,vid\_length

from video\_video

where title like 'A%' and vid\_length/60>2 –(video length in mins)

1. Write a Query to find *c\_num* and *course\_name* for the courses having ‘database’ or ‘system’ in their course description from university\_courses table

select c\_num , course\_name

from university\_courses

where course\_description like '%database%' or course\_description like '%system%'

1. Write a query to find out students *zid* and *cl\_id* who have got ‘C’ grade in their fall semester classes from university\_grades table.

select zid, cl\_id

from university\_grades

where cl\_id like '%fall' and grade= 'C'

1. Write a query to find out *zid*, *fname* and *lname* of students whose lastname ends with either ‘Smo’ or ‘Smith’ and firstname not being ‘Graeme’ from University\_students table.

select zid,fname,lname

from university\_student

where lname like '%smo' or lname like '%smith' and fname not like 'graeme'

1. Write a query to find *pur\_id, cus\_id* and *price\_paid* for the cars that are priced in the range of 10000 and 15000 from car\_purchases table.S ort the results by maximum price paid to minimum.

select pur\_id,cus\_id,price\_paid

from car\_purchases

where price\_paid between 10000 and 15000

order by price\_paid desc

1. Write a query to find the employee id, employee first and last name, and home phone numbers for employees that have sold a car whose price\_paid is more than 10000.

select eid,fname,lname,home\_phone

from car\_employee

where eid in

(select eid

from car\_purchases

where price\_paid >10000)

1. Write a query to find the employee id, employee first and last name, customer id, customer first and last name, and price paid for the most expensive car that has been sold

select ce.eid,fname,lname,cc.cus\_id,cus\_first,cus\_last,max(price\_paid)

from car\_employee ce, car\_customer cc,car\_purchases cp

where ce.zipcode=cc.zipcode and cc.cus\_id=cp.cus\_id

group by ce.eid,fname,lname,cc.cus\_id,cus\_first,cus\_last

1. Write a query to list all the customers (cus\_id, cus\_first, cus\_last) who have purchased a car that is red in color

select cus\_id,cus\_first,cus\_last

from car\_customer

where cus\_id in

(select cus\_id

from car\_purchases

where vin in

(select vin

from car\_cars

where color='red'))

1. Using the pertinent video database tables, write a query to display the total amount spent by each customer for purchasing.

select sum(amt) as total,cus\_id

from video\_purchases

group by cus\_id

1. Write a query to display the genre type of videos and the number of videos of that particular type has rate\_description ‘%good%’ in it.

select genre\_type, count(genre\_type) as totalvideos

from video\_video

where rate\_id in

(select rate\_id

from video\_ratings

where rate\_description like '%good%')

group by genre\_type

1. From the video database, write a query to display the isbn, title, and the count of the number of actors in each video.

select vv.title,vv.isbn,count(va.act\_id)

from video\_video vv right outer join video\_act\_in va

on vv.isbn=va.isbn

group by vv.title,vv.isbn

1. Display the customer id, first name and last name of all customers in the cars database, who were involved in more than one purchase.

select cus\_id,cus\_first,cus\_last

from car\_customer

where cus\_id in

(select cus\_id

from car\_customer

group by cus\_id

having count(cus\_id)>1)

1. Display employee id, first name and last name of employees with the total amount of sales in video\_purchases attributed to them as EmpTotSales, sorted by descending order of EmptTotSales

select e.emp\_id,e.emp\_first,e.emp\_last,count(p.amt) as EmpTotsales

from video\_employee e right outer join video\_purchases p

on e.emp\_id=p.emp\_id

group by e.emp\_id,e.emp\_first,e.emp\_last

order by EmpTotsales desc

1. Write a query to list all students (zid, fname, lname, email\_address) who have received a ‘A’ grade for any of the following courses with course\_name ‘Database Systems’ and ‘Business Intelligence’

select zid,fname,lname,email\_address

from university\_student

where zid in

(select zid

from university\_grades

where cl\_id in

(select cl\_id

from university\_classes

where c\_num in

(select c\_num

from university\_courses

where grade ='A' and course\_name like 'database systems' or course\_name like 'business intelligence')))

1. Write a query to list all the courses (c\_num, course\_name) that are handled by faculty who do not live in Dekalb

select c\_num,course\_name

from university\_courses

where c\_num in (select c\_num

from university\_classes

where fid in (select fid

from university\_faculty

where zipcode in (select zipcode

from university\_zip

where city not like 'dekalb')))