lab 2 Part2

November 3, 2016

Problem 1

Write a query that will return the count of elements in the Entry columns of the Alz table .
soultion: select count(entry) from Alz;
3389

Problem 2

Write a query that will return the distinct count elements in the Entry column of the Alz table.
soultion: select count(distinct(entry)) from Alz;
3389

yes it is a good primary key because there is no similar values therefore it would be a good idea to make it a primary key.

Problem 3

Discuss: From the above two queries, is this column a good primary key for the Alz table? why or why not? (if not, then what column would you recommend, instead?)
soultion: Yes it is a good primary key because there is no similar values therefore it would be a good idea to make it a primary key.

problem 4

Write a query that will return the number of records associated with the organismZea mays (Maize) in the Alz and Park tables.
soultion:
sqlite select count(entry) from Alz where Organism == "Zea mays (Maize)";
0

sqlite select count(entry) from Park where Organism == "Zea mays (Maize)";
9

problem 5

soultion select count(a.Organism) from Apop a ; 100082 sqlite¿ select count(a.Organism) from Park a ; 127368 sqlite¿ select count(a.Organism) from Alz a ; 3389

Problem 6

soultion: Homo sapiens (Human)
Mus musculus (Mouse)
Rattus norvegicus (Rat)
Bos taurus (Bovine)
Pan troglodytes (Chimpanzee)
Danio rerio (Zebrafish) (Brachydanio rerio)
.....
select count(distinct(p.organism)) from Park p , Alz a where p.Organism == a.Organism; 21

problem 7

Soultion: select a.entry from Apop a where a.Organism =="Bothrops brazili";
select a.entry from Park a where a.Organism =="Bothrops brazili";
C5H767
C5H755
select a.entry from Alz a where a.Organism =="Bothrops brazili";

It turns out the Park table was the only one that had any matches.

Problem 8

Soultion: select count(distinct(p.gene_names)) from Alz a, Park p where a.gene_names == p.gene_names;
30

Problem 9

Soultion: select distinct(a.gene_names) from Apop a, Alz al where a.Organism == al.Organism limit 10; TP53 P53
Bcl2 Bcl-2
BCL2
BAX BCL2L4

PYCARD ASC CARD5 TMS1
FAS APT1 FAS1 TNFRSF6
BIRC5 API4 IAP4
Bax
XIAP API3 BIRC4 IAP3
BIRC2 API1 MIHB RNF48