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CS143
HW3
1.
check(weight <= 5)</pre>
2.
(a).
CREATE VIEW EmployeeNames AS
SELECT ename
FROM Employees;
CREATE VIEW DeptInfo AS
SELECT dept, AVG(Salary) avgs
FROM Employees
Group by dept;
(b)
He needs to use SELECT and DELETE from Employees and SELECT of
DeptInfo
(c)
Actually he is able to find any individual's salary if he wants to.
can delete all elements in Employees except the one he wants then he
look at the
the DeptInfo, the average salary is the salary of the one he wants.
(d).
UPDATE DeptInfo SET avgs = 666666 WHERE dept = 'health';
(e).
GRANT SELECT, UPDATE ON Employees TO Joe WITH GRANT OPTION
GRANT SELECT, UPDATE ON EmployeeNames TO Joe WITH GRANT OPTION
NO, Joe can not read DeptInfo. He does not have the privilege we
gave to him.
3
(a).
1024(byte)*500*10000*6 = 30GB per disk
(b).
time for one rotation = 60000/6000 = 10ms
rotation delay = 10ms*1/2 = 5ms
transfer time = (1/500)*10ms = 0.02ms
seek time + rotation delay + transfer time
= 10ms + 5ms + 0.02ms
=15.02ms
(c).
1024bytes/72bytes = 14tuples/block
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1000/14 = 72 blocks/table

(d).
seek time + rotation delay + transfer time
= 10ms + 5ms + 0.02*72
= 16.44ms

(e).
one "3 consecutive blocks" time:
= 10ms + 5ms + 3*0.02
= 15.06ms;
24 "3 consecutive blocks"
24 * 15.06
= 361.44ms
```