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CSE, 7, 3rd year

Lab Session 6

CREATE TABLE dept(

deptno number(2, 0),

dname varchar2(14),

loc varchar2(13),

primary key( deptno));

CREATE TABLE salgrade(

grade int not null,

losal int not null,

hisal int not null);

CREATE TABLE employee(

id int,

ename varchar2(20) not null,

job varchar2(20) not null,

mgr int,

doj date not null,

sal int not null,

comm int,

deptno number(2,0) references dept(deptno),

primary key(id));

sqlite> select \* from dept;

10|Accounting|New York

20|Research|Dallas

30|Sales|Chicago

40|Operations|Boston

sqlite> select \* from salgrade;

1|700|1200

2|1201|1400

3|1401|2000

4|2001|3000

5|3001|9999

sqlite> select \* from employee;

7369|Smith|Clerk|7902|17-12-1980|800||20

7499|Allen|Saleman|7698|20-02-1981|1600|300|30

7521|Ward|Saleman|7698|22-02-1981|1250|500|30

7566|Jones|Manager|7839|02-04-1981|2975||20

7654|Martin|Saleman|7698|28-09-1981|1250|1400|30

7698|Blake|Manager|7839|01-05-1981|2850||30

7782|Clark|Manager|7839|09-06-1981|2450||10

7788|Scott|Analyst|7566|09-12-1982|3000||20

7839|King |President|10000|17-11-1981|5000||10

7844|Turner|Saleman|7698|08-09-1981|1500|0|30

7876|Adams|Clerk|7788|12-01-1983|1100||20

7902|Ford|Analyst|7566|04-12-1981|3000||20

1.select ename from employee where sal = ( select max(sal) from employee );

King

2.select ename from employee where sal = (select max(sal) from employee where lower(job) = 'saleman');

Allen

3. select ename from employee where sal = (select min(sal) from employee where lower(job) = 'clerk');

Smith

4.select dname from dept d, employee e group by e.deptno having avg(sal) >= all(select avg(sal) from employee group by deptno);

Accounting

5. select ename from employee where sal > (select sal from employee where lower(ename) like 'turner');

Allen

Jones

Blake

Clark

Scott

King

Ford

6. select ename from employee where doj > (select doj from employee where lower(ename) like 'allen');

Ward

Jones

Martin

Blake

Clark

Scott

King

Turner

Adams

Ford

7.select dname from dept where deptno = ( select deptno from employee where lower(ename) like 'ford');

Research

8.select dname from dept where deptno = (select deptno from employee where sal = (select max(sal) from employee));

Accounting

9. select loc from dept where deptno = (select deptno from employee where upper(ename) like 'SMITH');

Dallas

10.select loc from dept where deptno in (select deptno from employee where lower(job) like 'manager');

New York

Dallas

Chicago

11.select s.grade from EMPLOYEE e,salgrade s where e.ENAME='Martin' and e.SAL between s.losal and s.hisal;

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12.select ename from employee e where sal > all(select sal from employee where deptno in (Select deptno from dept where loc = ‘Dallas’));

King

13.select dname from dept where deptno not in (select deptno from employee);

Operations

14.select ename from employee where upper(ename) not like 'ADAMS' and doj in (select doj from employee where upper(ename) like 'ADAMS');

Null

15.select dname from dept where deptno in (select deptno from employee where comm <> 'NULL');

Sales

16.select ename, job, sal from employee where sal in (select min(sal) from employee group by deptno);

Smith|Clerk|800

Ward|Saleman|1250

Martin|Saleman|1250

Clark|Manager|2450