SQL CREATE TABLE

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CREATE TABLE Employee2 (EID char(9), Name varchar2(20), Salary number(7,2), MID char(9),
PRIMARY KEY (EID), FOREIGN KEY (MID) REFERENCES Employee2 (EID))
CREATE TABLE Service2 (SID char(3), Operation varchar2(30), PRIMARY KEY (SID))
CREATE TABLE Cottage2 (Cnum char(3), Rent number(5,2), Nbed number(1), Category
number(1), PRIMARY KEY (Cnum))
CREATE TABLE Assignment2 (AID char(3), Adate date, Hours number(2), PRIMARY KEY (AID))
CREATE TABLE Implements2 (EID char(9), Cnum char(3), SID char(3), AID char(3), PRIMARY KEY
(AID, SID), FOREIGN KEY (EID) REFERENCES Employee2, FOREIGN KEY (SID) REFERENCES
Service2, FOREIGN KEY (Cnum) REFERENCES Cottage2, FOREIGN KEY (AID) REFERENCES
Assignment2)
SQL INSERT DATA IN TABLE
LOAD DATA
       INFILE Employee2.dat
       REPLACE INTO TABLE Employee2
       FIELDS TERMINATED BY ','
       OPTIONALLY ENCLOSED BY ""
       (EID, Name, Salary, MID)
'e01', 'Wilson', '53000', "
'e02', 'Smith', '48000', 'e01'
'e03', 'Jones', '38000', 'e01'
'e04', 'Loftus', '41000', "
'e05', 'Wang', '54000', 'e04'
'e06', 'Smith', '45000', 'e04'
'e07', 'Green', '48000', "
'e08', 'Fox', '49000', 'e04'
'e09', 'Wang', '41000', 'e04'
'e10', 'Fox', '32000', 'e01'
'e11', 'Phillips', '33000', 'e07'
'e12', 'Liu', '27000', 'e07'
INSERT into Service2 (SID, Operation) VALUES ('s01', 'Maid in')
INSERT into Service2 (SID, Operation) VALUES ('s02', 'Kitchen maid')
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INSERT into Service2 (SID, Operation) VALUES ('s03', 'Cleaning')
INSERT into Service2 (SID, Operation) VALUES ('s04', 'Cooking')
INSERT into Service2 (SID, Operation) VALUES ('s05', 'Babysitting')
INSERT into Service2 (SID, Operation) VALUES ('s06', 'Laundry')
INSERT into Service2 (SID, Operation) VALUES ('s07', 'Delivery')
LOAD DATA
       INFILE Cottage2.dat
       REPLACE INTO TABLE Cottage2
       FIELDS TERMINATED BY ","
       OPTIONALLY ENCLOSED BY ""
       (Cnum,Rent,Nbed,Category)
'101', '200', '2', '3'
'102', '220', '3', '3'
'103', '180', '2', '2'
'104', '120', '1', '1'
'105', '300', '3', '4'
'106', '350', '3', '4'
'107', '360', '3', '4'
'108', '400', '4', '4'
'109', '500', '3', '5'
'110', '600', '4', '5'
LOAD DATA
       INFILE Assignment2.dat
       REPLACE INTO TABLE Assignment2
       FIELDS TERMINATED BY ","
       OPTIONALLY ENCLOSED BY ""
       (AID, Adate, Hours)
'a01', '15-MAY-19', '3'
'a02', '16-MAY-19', '4'
'a03', '17-MAY-19', '2'
'a04', '14-MAY-19', '3'
'a05', '18-MAY-19', '5'
'a06', '15-MAY-19', '3'
'a07', '18-MAY-19', '4'
'a08', '20-MAY-19', '5'
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'a09', '15-MAY-19', '3'
'a10', '15-MAY-19', '2'
LOAD DATA
        INFILE Implements2.dat
        REPLACE INTO TABLE Implements2
        FIELDS TERMINATED BY ","
        OPTIONALLY ENCLOSED BY """
        (EID,Cnum,SID,AID)
'e08', '101', 's02', 'a01'
'e03', '101', 's03', 'a01'
'e02', '102', 's02', 'a03'
'e05', '103', 's01', 'a04'
'e06', '105', 's05', 'a05'
'e06', '107', 's04', 'a06'
'e03', '108', 's04', 'a07'
'e09', '109', 's01', 'a08'
'e08', '106', 's06', 'a09'
'e10', '102', 's04', 'a03'
'e02', '110', 's04', 'a10'
'e10', '103', 's05', 'a04'
'e05', '105', 's04', 'a02'
'e10', '105', 's04', 'a05'
'e06', '107', 's06', 'a06'
```

SQL QUERY'S

select s.operation from service2 s where s.sid in (select i.sid from implements2 i where i.cnum in (select c.cnum from cottage2 c where c.nbed = 3));

OPERATION

Maid_in
Kitchen_maid
Cooking
Babysitting
Laundry

select c.cnum, c.category from cottage2 c where c.cnum in (select i1.cnum from implements2 i1 join implements2 i2 on i1.cnum =i2.cnum and i1.sid <> i2.sid);

CNU CATEGORY

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select c.cnum,c.rent from cottage2 c where not exists (select * from implements2 i where i.cnum = c.cnum and i.sid = (select s.sid from service2 s where s.operation = 'Babysitting'));

CNU RENT

101 200 102 220

104 120 106 350

107 360

108 400

109 500

110 600

select e.eid,e.name, count(distinct i.sid) from employee2 e left outer join implements2 i on e.eid = i.eid group by e.eid,e.name;

EID NAME COUNT(DISTINCTI.SID)

e05 Wang 2

e04 Loftus 0

e02 Smith 2

e12 Liu 0

e03 Jones 2

e07 Green 0

e01 Wilson 0

e11 Phillips 0

e06 Smith 3

e10 Fox 2

e08 Fox 2

EID NAME COUNT(DISTINCTI.SID)

e09 Wang 1

select e.eid,e.name from employee2 e where e.eid in (select i.eid from implements2 i group by i.eid having count(distinct i.sid)>= all (select count(distinct i1.sid) from implements2 i1 group by i1.eid));

EID NAME
e06 Smith
select m.name from employee2 m where m.eid in (select e.mid from employee2 e where e.eid in (select i.eid from implements2 I where i.sid in (select s.sid from service2 s where s.operation ='Cooking')));
NAME
Wilson Loftus
select e.name from employee2 e where e.salary > any (select m.salary from employee2 where m.mid is null);
NAME
Wang Wilson Fox Smith Green Smith
select e.eid,e.name from employee2 e where e.eid in (select i.eid from implements2 i where i.sid in (select s.sid from service2 s where s.operation = 'Cooking')) intersect select e.eid,e.name from employee2 e where e.eid in (select i.eid from implements2 i where i.sid in (select s.sid from service2 s where s.operation = 'Babysitting'));
EID NAME
e06 Smith e10 Fox