Aggregate Operations, Group by Having clause

Create table employee with following field eid,ename,did,salary

Success

```
1  create table employee (eid int not null,ename varchar(20) not null,did int not null,salary int);
2  insert into employee (eid,ename,did,salary)value(1,"salma",100,8000);
3  insert into employee (eid,ename,did,salary)value(7,"anu",104,60000);
4  insert into employee (eid,ename,did,salary)value(4,"minnu",102,80000);
5  insert into employee (eid,ename,did,salary)value(3,"appu",103,10000);
6  insert into employee (eid,ename,did,salary)value(9,"beema",105,80000);
7  select * from employee;
8
```

Run (Ctrl-Enter) MySQL books

Output Input Comments 0

eid	ename	did	salary
1	salma	100	8000
7	anu	104	60000
4	minnu	102	80000
3	appu	103	10000
9	beema	105	80000

Create a table dept with field did and dname

```
create table employee (eid int not null,ename varchar(20) not null,did int not null,salary int);
insert into employee (eid,ename,did,salary)value(1,"salma",100,8000);
insert into employee (eid,ename,did,salary)value(7,"anu",104,60000);
insert into employee (eid,ename,did,salary)value(4,"minnu",102,80000);
insert into employee (eid,ename,did,salary)value(3,"appu",103,10000);
insert into employee (eid,ename,did,salary)value(9,"beema",105,80000);


create table dept (did int references employee(did),dname varchar(20) not null);
insert into dept (did,dname)value(100,"production");
insert into dept (did,dname)value(102,"sales");
insert into dept (did,dname)value(104,"it");
insert into dept (did,dname)value(105,"hr");
select * from dept;

```

Save and Run

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Output Input Comments 0

did	dname
100	production
102	sales
104	it
105	hr

1.Find out the number of employees in a company

Success

```
create table employee (eid int not null,ename varchar(20) not null,did int not null,salary int);
insert into employee (eid,ename,did,salary)value(1,"salma",100,8000);
insert into employee (eid,ename,did,salary)value(7,"anu",104,60000);
insert into employee (eid,ename,did,salary)value(4,"minnu",102,80000);
insert into employee (eid,ename,did,salary)value(3,"appu",103,10000);
insert into employee (eid,ename,did,salary)value(9,"beema",105,80000);


create table dept (did int references employee(did),dname varchar(20) not null);
insert into dept (did,dname)value(100,"production");
insert into dept (did,dname)value(102,"sales");
insert into dept (did,dname)value(104,"it");
insert into dept (did,dname)value(105,"hr");
select count(*)as number_of_employee from employee;

```

Run (Ctrl-Enter) MySQL books

Output Input Comments 0

number_of_employee
5

2.Find out the total salary of all department

```
create table employee (eid int not null,ename varchar(20) not null,did int not null,salary int);
insert into employee (eid,ename,did,salary)value(1,"salma",100,8000);
insert into employee (eid,ename,did,salary)value(7,"anu",104,60000);
insert into employee (eid,ename,did,salary)value(4,"minnu",102,80000);
insert into employee (eid,ename,did,salary)value(3,"appu",103,10000);
insert into employee (eid,ename,did,salary)value(9,"beema",105,80000);


create table dept (did int references employee(did),dname varchar(20) not null);
insert into dept (did,dname)value(100,"production");
insert into dept (did,dname)value(102,"sales");
insert into dept (did,dname)value(104,"it");
insert into dept (did,dname)value(105,"hr");
select did,sum(salary) from employee group by did;

```

Save and Run

Run (Ctrl-Enter) MySQL books

Output Input Comments 0

```
did     sum(salary)
100     8000
104     60000
102     80000
103     10000
105     80000
```

3.Find out the total salary of all department with did=100

```
create table employee (eid int not null,ename varchar(20) not null,did int not null,salary int);
insert into employee (eid,ename,did,salary)value(1,"salma",100,8000);
insert into employee (eid,ename,did,salary)value(7,"anu",104,60000);
insert into employee (eid,ename,did,salary)value(4,"minnu",102,80000);
insert into employee (eid,ename,did,salary)value(3,"appu",103,10000);
insert into employee (eid,ename,did,salary)value(9,"beema",105,80000);


create table dept (did int references employee(did),dname varchar(20) not null);
insert into dept (did,dname)value(100,"production");
insert into dept (did,dname)value(102,"sales");
insert into dept (did,dname)value(104,"it");
insert into dept (did,dname)value(105,"hr");
select sum(salary) from employee where did=100;

```

Save and Run

Run (Ctrl-Enter) MySQL books

Output Input Comments 0

```
sum(salary)
8000
```

4.Find out the average salary of all department

```
create table employee (eid int not null,ename varchar(20) not null,did int not null,salary int);
insert into employee (eid,ename,did,salary)value(1,"salma",100,8000);
insert into employee (eid,ename,did,salary)value(7,"anu",104,60000);
insert into employee (eid,ename,did,salary)value(4,"minnu",102,80000);
insert into employee (eid,ename,did,salary)value(3,"appu",103,10000);
insert into employee (eid,ename,did,salary)value(9,"beema",105,80000);


create table dept (did int references employee(did),dname varchar(20) not null);
insert into dept (did,dname)value(100,"production");
insert into dept (did,dname)value(102,"sales");
insert into dept (did,dname)value(104,"it");
insert into dept (did,dname)value(105,"hr");
select did,avg(salary)as average_salary from employee group by did;
```

Save and Run

Run (Ctrl-Enter) MySQL books

Output Input Comments 0

did	average_salary
100	8000.0000
104	60000.0000
102	80000.0000
103	10000.0000
105	80000.0000

5.Find out the inimum salary of all department

```
create table employee (eid int not null,ename varchar(20) not null,did int not null,salary int);
insert into employee (eid,ename,did,salary)value(1,"salma",100,8000);
insert into employee (eid,ename,did,salary)value(7,"anu",104,60000);
insert into employee (eid,ename,did,salary)value(4,"minnu",102,80000);
insert into employee (eid,ename,did,salary)value(3,"appu",103,10000);
insert into employee (eid,ename,did,salary)value(9,"beema",105,80000);


create table dept (did int references employee(did),dname varchar(20) not null);
insert into dept (did,dname)value(100,"production");
insert into dept (did,dname)value(102,"sales");
insert into dept (did,dname)value(104,"it");
insert into dept (did,dname)value(105,"hr");
select did,min(salary)as minimum_salary from employee group by did;
```

Save and Run

Run (Ctrl-Enter) MySQL books

Output Input Comments 0

did	minimum_salary
100	8000
104	60000
102	80000
103	10000
105	80000

6.Find out the number of employees in each department

```
create table employee (eid int not null,ename varchar(20) not null,did int not null,salary int);
insert into employee (eid,ename,did,salary)value(1,"salma",100,8000);
insert into employee (eid,ename,did,salary)value(7,"anu",104,60000);
insert into employee (eid,ename,did,salary)value(4,"minnu",102,80000);
insert into employee (eid,ename,did,salary)value(3,"appu",103,10000);
insert into employee (eid,ename,did,salary)value(9,"beema",105,80000);


create table dept (did int references employee(did),dname varchar(20) not null);
insert into dept (did,dname)value(100,"production");
insert into dept (did,dname)value(102,"sales");
insert into dept (did,dname)value(104,"it");
insert into dept (did,dname)value(105,"hr");
select did,count(*)as number_of_employees from employee group by did;

```

Save and Run

Run (Ctrl-Enter) MySQL books

Output Input Comments 0

did	number_of_employees
100	1
104	1
102	1
103	1
105	1