

1-1

```
select monitor.name
from monitor
join pro_monitor on monitor.id = pro_monitor.monitor_id
where pro_monitor.pro_id = 'P1'
```

1-2

```
select m.name
from monitor m
join pro_monitor pm on m.id = pm.monitor_id
where pm.pro_id in (select pro_id from pro_dep where dep_id = 'D1')
```

1-3

```
select s.id, d.m_id
from stuff s
left join dep d
on s.dep_id = d.id
```

1-4

```
select sum(t.budget) from (
select p.id, p.budget, pd.dep_id
from project p
join pro_dep pd on p.id = pd.pro_id
where pd.dep_id in
(select distinct dep_id from stuff s where mid(s.name, 1,1) = "A")
) t
```

1-5

```
select id from project p2 where p2.budget > (
select max(budget) from project p where p.duration > 10)
```

1-6

```
select id, min(date) from stuff_kq group by id
```

1-7

```
select pd.dep_id, sum(budget) as sbd
from project p join pro_dep pd on p.id = pd.pro_id
group by pd.dep_id
having sbd > 10000
```

1-8

```
select m.name, count(*) as pro_num
from pro_monitor pm
join monitor m on pm.monitor_id = m.id
group by m.name
having pro_num >= 3
```

2-1

```
select s.name from student s, course c, stu_course sc
where s.id = sc.sid and c.id = sc.cid and c.name = '物理'
```

2-2

```
select name from student where mid(name,1,1) = 'E'
```

2-3

```
select distinct tid from stu_course sc where tid not in (
select distinct sc2.tid from stu_course sc2
where sc2.grade < 60
)
```

2-4

```
select sid, count(*) from stu_course sc
group by sid
```

2-5

```
select c.name, sc.grade
from stu_course sc
join student s on sc.sid = s.id
join course c on sc.cid = c.id
where s.name = "Armin" and sc.grade < 60
order by sc.grade desc
```

2-6

```
select credit, count(*), avg(grade)
from stu_course sc
join course c on sc.cid = c.id
group by c.id
```

2-7

```
select sc.sid, sum(credit) as allCredit
from stu_course sc
join course c on sc.cid = c.id
where grade > 60
group by sc.sid
having allCredit < 10
```

