Consider the following relational schema and briefly answer the following questions:

Emp(eid:integer, ename:string, age:integer, salary:real)
Works(eid:integer, did:integer, pcttime:integer)
Dept(did:integer, budget:real, managerid:integer)

1) For each department, print the department id, budget, and the average salary of employees who are working there for at least 40 percent of their time.

```
Select d.did, d.budget, avg(e.salary)
from Emp e, Dept d, Works w
where e.eid=w.did and w.did=d.did and w.pcttime>=40
group by d.did,d.budget;
```

2) Print employees age and average salary based on their age, only if there are at least 4 employee who have that age.

```
select e.age,avg(e.salary)
from Emp e
group by e.age having count(*)>4;
```

3) Define a row-level trigger to ensure that no update can reduce an employee’s age.

```
delimiter //
CREATE TRIGGER NoLowerAge BEFORE UPDATE ON Emp
FOR EACH ROW
BEGIN
  IF NEW.age < OLD.age THEN
    SET NEW.age = OLD.age;
  END IF;
END; //
delimiter ;
```

4) Create a view named “emp_info” that shows the name and salary of employees who are working in a department with a budget more than $100,000.

```
create view emp_info as
select distinct e1.ename,e1.salary from Emp e1, Works w1, Dept d1
where e1.eid = w1.eid and w1.did=d1.did and d1.budget >100000;