Question 1

1. Select pname from parts p inner join catalog c on p.pid=c.pid inner join suppliers s on s.sid=c.sid;
2. Select sname from parts p inner join catalog c on p.pid=c.pid inner join suppliers s on s.sid=c.sid where p.color=’red’;
3. Select sid from parts p inner join catalog c on p.pid=c.pid where p.color=’red’ intercept Select sname from parts p inner join catalog c on p.pid=c.pid where p.color=’green’;
4. Select sid from parts p inner join catalog c on p.pid=c.pid where p.color=’red’ union Select sid from suppliers where address=’221 packers street’;
5. Select p.color,c.cost from parts p inner join catalog c on p.pid=c.pid inner join suppliers s on s.sid=c.sid where s.sname=’john’;
6. Select pname from parts p inner join catalog c on p.pid=c.pid where cost = (select max(cost) from catalog );

Question 2

1. Select w.worker\_id, w.first\_name, w.salary,w.joining\_data,w.department from worker w , bonus b where b.worker\_ref\_id=w.worker\_id and salary between (100000 and 500000) and bonus between (5000 and 10000);
2. Select w.worker\_id, w.first\_name, w.salary,w.joining\_data,w.department from worker w ,

Title t where t.worker\_ref\_id=w.woker\_id and t.worker\_title=’manager’;

1. Select w1.first\_name , w2.first\_name from worker w1, worker w2 where w1.woker\_id<>w2.worker\_id and w1.salary=w2.salary;
2. Select w.first\_name, w.salary,b.bonus from worker w , bonus b ,title t where b.worker\_ref\_id=w.worker\_id and t.worker\_ref\_id=w.worker\_id and t.title=”manager” ;
3. Update worker w inner join bonus b on w.woker\_id = b.woker\_ref\_id set bonus=1.1\*bonus where w.department=”CSE”;

Question 3

1. Select \* from students where gpa>(select avg(gpa) from student);
2. Select avg(num\_of\_student) from classes c , teacher t where c.teacher\_id=t.id and t.subject in(“DSW” , “DSA”);
3. Select \* from student where class\_id = (select id from classes where num\_of\_student =(select max(num\_of\_student from classes)));
4. Select subject from teacher group by subject having avg(salary) = (select max(avg(salary)) form teacher group by subject);

Question 4

1. select d.name,d.city from director d where d.director\_id =(select director\_id from film where gross>1.5\*budget);
2. Select \* from film where budget = (select max(budget) from film);
3. select d.name,d.city from director d where d.director\_id =(select director\_id from film where budget<200000000);