LAB 5 SOLUTIONS

	Exercise 1
1.	select firstname||' '||lastname from employees where deptcode in(select code from departments where name='Consulting');
2.	select firstname||' '||lastname from employees where deptcode in(select code from departments where name='Consulting')and employeeid in(select employeeid from workson where (assignedtime*100)>20 and projectid='ADT4MFIA');
3.	select sum(assignedtime*100) as "total assigned time" from workson where employeeid =(Select employeeid from employees where firstname||' '||lastname = 'Abe Advice');
4.	select name from departments where code not in (select distinct deptcode from projects);
5.	select firstname, lastname from employees where salary>(select avg(salary) from employees e,departments d where e.deptcode=d.code and d.name='Accounting');
6.	select description from projects where projectid in(select projectid from workson group by projectid having sum(assignedtime)>0.7);
7.	select firstname, lastname from employees where salary > ANY(select salary from employees e, departments d where e.deptcode=d.code and d.name='Accounting');
8.	select min(salary) from employees where salary > ANY(select salary from employees e, departments d where e.deptcode=d.code and d.name='Accounting');
9.	select firstname,lastname from employees where salary= (select max(salary) from employees e,departments d where e.deptcode=d.code and d.name='Accounting');
10.	select employeeid , sum(assignedtime) from workson w where projectid not in (select projectid from projects p, departments d ,employees e where p.deptcode=d.code and e.deptcode = d.code and w.employeeid=e.employeeid) and 0.5>ANY(select assignedtime from workson wo where wo.employeeid=w.employeeid) group by employeeid;
11.	SELECT d.name FROM departments d WHERE EXISTS (SELECT e.firstname FROM employees e WHERE e.deptcode = d.code AND NOT EXISTS ((SELECT projectid FROM projects p1 WHERE p1.deptcode = d.code) MINUS

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(SELECT p.projectid
FROM projects p, workson w
WHERE w.employeeid = e.employeeid
AND w.projectid = p.projectid)));
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12.

a.
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select firstname||' '|| lastname from employees where deptcode in(select code from departments where name='Information Technology');
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b.
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select firstname||' '|| lastname from employees where deptcode in(select code from departments where name='Information Technology') and employeeid in (select employeeid from workson w,projects p where w.projectid=p.projectid and p.description='Health'and assignedtime>0.2 group by employeeid   );
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c.
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select firstname, lastname from employees where salary>(select avg(salary) from employees e,departments d where e.deptcode=d.code and d.name='Accounting');
```

d.
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select projectid from workson group by projectid having sum(assignedtime)>0.5;
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e.
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select sum(assignedtime)*100 from workson where employeeid IN (Select employeeid from employees where firstname||' '||lastname='Bob Smith');
```

f.
```
select code from departments
minus
select deptcode from projects ;
```

g.
```
select firstname||' '||lastname from employees where salary > ANY(select salary from employees e, departments d where e.deptcode=d.code and d.name='Information Technology');
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h.
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--select firstname||' '||lastname from employees where salary > ALL(select salary from employees e, departments d where e.deptcode=d.code and d.name='Information Technology');
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i.
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select max(salary) from employees where deptcode in (select code from departments where name='Information Technology');
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