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Lab 5

```
select p.projname, e.fname from proj p, emp e, dept d
where d.mgr = e.empno and d.deptnumber = p.deptnum;
```

PROJNAME	FNAME
Product X	Johnathan
Product Y	Johnathan
Computerization	Ellen
Product Z	William
Mobile Apps	Ellen

```
select e.empno, SUM(j.hoursworked) "Hours Spent"
from emp e, proj p, emp_proj j
where e.empno = j.empno and j.projno = p.projnumber
group by e.empno
```

EMPNO Hours Spent	
1007	40
1444	20
1740	50.5

1760	15
2002	40
2060	12

6 rows selected.

```
create view "EMPLOYEE HOURLY RATE" as
select round(e.salary/408, 2) "HOURLY RATE"
from emp e;
```

Error starting at line : 11 in command -

```
create view "EMPLOYEE HOURLY RATE" as
select round(e.salary/408, 2) "HOURLY RATE"
from emp e
```

Error report -

ORA-00955: name is already used by an existing object

00955. 00000 - "name is already used by an existing object"

\*Cause:

\*Action:

```
select * from "EMPLOYEE HOURLY RATE" ;
```

HOURLY RATE

-----

58.82  
36.76  
147.06  
159.31  
159.31  
68.63  
49.02

7 rows selected.

```
select e.empno, p.projnumber, round(sum(j.hoursworked * (e.salary/408)), 2) "TOTAL LABOR COST"
from emp e, proj p, emp_proj j
where e.empno = j.empno and j.projno = p.projnumber
group by e.empno, p.projnumber;
```

EMPNO	PROJNUMBER	TOTAL LABOR COST
1444	20	980.39
2060	40	1911.76
1740	50	2389.71
1760	20	1470.59
2002	10	1470.59
1007	30	1911.76
1007	50	441.18
1760	10	735.29

1740	30	5655.64
------	----	---------

9 rows selected.

```
alter table emp
```

```
    add dob DATE;
```

```
alter table emp
```

```
    add hire_date DATE;
```

Error starting at line : 22 in command -

```
alter table emp
```

```
    add dob DATE
```

Error report -

ORA-01430: column being added already exists in table

01430. 00000 - "column being added already exists in table"

\*Cause:

\*Action:

Error starting at line : 24 in command -

```
alter table emp
```

```
    add hire_date DATE
```

Error report -

ORA-01430: column being added already exists in table

01430. 00000 - "column being added already exists in table"

\*Cause:

\*Action:

```
update emp set dob = to_date('1981-10-31', 'YYYY-MM-DD'), hire_date = to_date('2018-01-02', 'YYYY-MM-DD') where empno = 1007;  
update emp set dob = to_date('1964-07-12', 'YYYY-MM-DD'), hire_date = to_date('2014-10-15', 'YYYY-MM-DD') where empno = 2002;  
update emp set dob = to_date('1976-02-28', 'YYYY-MM-DD'), hire_date = to_date('2009-06-15', 'YYYY-MM-DD') where empno = 1760;  
update emp set dob = to_date('1990-09-10', 'YYYY-MM-DD'), hire_date = to_date('2011-09-02', 'YYYY-MM-DD') where empno = 1740;  
update emp set dob = to_date('1980-06-25', 'YYYY-MM-DD'), hire_date = to_date('2013-04-13', 'YYYY-MM-DD') where empno = 2060;  
update emp set dob = to_date('1999-05-05', 'YYYY-MM-DD'), hire_date = to_date('2019-08-01', 'YYYY-MM-DD') where empno = 2000;  
update emp set dob = to_date('1993-01-24', 'YYYY-MM-DD'), hire_date = to_date('2012-07-15', 'YYYY-MM-DD') where empno = 1444;
```

1 row updated.

1 row updated.

1 row updated.

1 row updated.

1 row updated.

1 row updated.

1 row updated.

```
create table emp_proj_overtime(  
empno number(4) not null,  
projno number(2) not null,  
hourot number(6) not null  
);
```

Table EMP\_PROJ\_OVERTIME created.

```
alter table emp_proj_overtime add constraint emp_proj_empno_PK PRIMARY KEY(empno);  
alter table emp_proj_overtime add constraint emp_proj_projno_PK FOREIGN KEY(projno) references proj(projnumber);
```

Table EMP\_PROJ\_OVERTIME altered.

Table EMP\_PROJ\_OVERTIME altered.

```
desc emp_proj_overtime;
```

Name Null? Type

-----

EMPNO NOT NULL NUMBER(4)

PROJNO NOT NULL NUMBER(2)

HOUROT NOT NULL NUMBER(6)

create or replace trigger ot\_trigger

after insert or update of hoursworked on emp\_proj

referencing old as old new as new

for each row when (new.hoursworked > 100)

begin

insert into emp\_proj\_overtime (empno, projno, hourot) values

(:new.empno, :new.projno, :new.hoursworked - 100);

EXCEPTION WHEN dup\_val\_on\_index then

update emp\_proj\_overtime epo

set epo.hourot = :new.hoursworked - 10

where epo.empno = :old.empno and epo.projno = :old.projno;

commit;

end;

Trigger OT\_TRIGGER compiled