SOFTENG 351: Lab #7

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1)

```
delimiter &
create procedure init(in p int(11)) begin
    declare x int;

    select count(*) into x from (
    select COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS
    where TABLE_SCHEMA='COMPANY' and TABLE_NAME='PROJECT')
    as COLUMN_NAMES where COLUMN_NAME='Hours';

    IF x = 0 then begin
        alter table PROJECT add column Hours float;
        update PROJECT set Hours=0.0 where Pnumber=p;
    end;
    end if;
end
```

2)

```
delimiter &
create procedure stat() begin
  declare pmin, pmax, i, total int;
  select min(Pnumber) into pmin from PROJECT;
  select max(Pnumber) into pmax from PROJECT;
  set i = pmin;
  processing: loop
    if i > pmax then leave processing;
    end if;

    -- Find total num hours
    select sum(Hours) into total from WORKS_ON WHERE Pno=i;
    if total is null Then
      set total=0;
    end if;

    -- Update value
    update PROJECT set Hours=total where Pnumber=i;
    set i = i+1;
  end loop processing;
end
```