Task 1:

**SQL Query:**

select product,sum(total\_price) as total\_price from

(select product,quantity\*unit\_price as total\_price

from shopping\_history) tq

group by product

order by product desc;

Task 2:

**SQL Query:**

with first\_join as

(select phone\_number,name,sum(duration) as sd from

(select phone\_number,name,duration,c.callee from

phones p join callss c

on p.phone\_number = c.caller) ff

group by name,phone\_number)

select name from (

select phone\_number,name,sd,sum(duration) as sd1 from

(select phone\_number,name,sd,duration from first\_join fj

left join callss c

on fj.phone\_number = c.callee) ff1

group by name,phone\_number,sd) ff2

where (sd+sd1)>=10

Task 3:

**SQL Query:**

select (select sum(Amount) from transactions)-(12-no\_charge\_month)\*5 as balance from

(

select count(distinct EXTRACT(MONTH FROM date)) as no\_charge\_month from

(SELECT \*,

count(\*) OVER (PARTITION BY EXTRACT(MONTH FROM date)) as cpm,

sum(abs(amount)) over (PARTITION BY EXTRACT(MONTH FROM date)) as spm

FROM transactions where amount< 0) dd

where (cpm>=3) and (spm>=100 )

) dd1