Minrui Li, ml7136

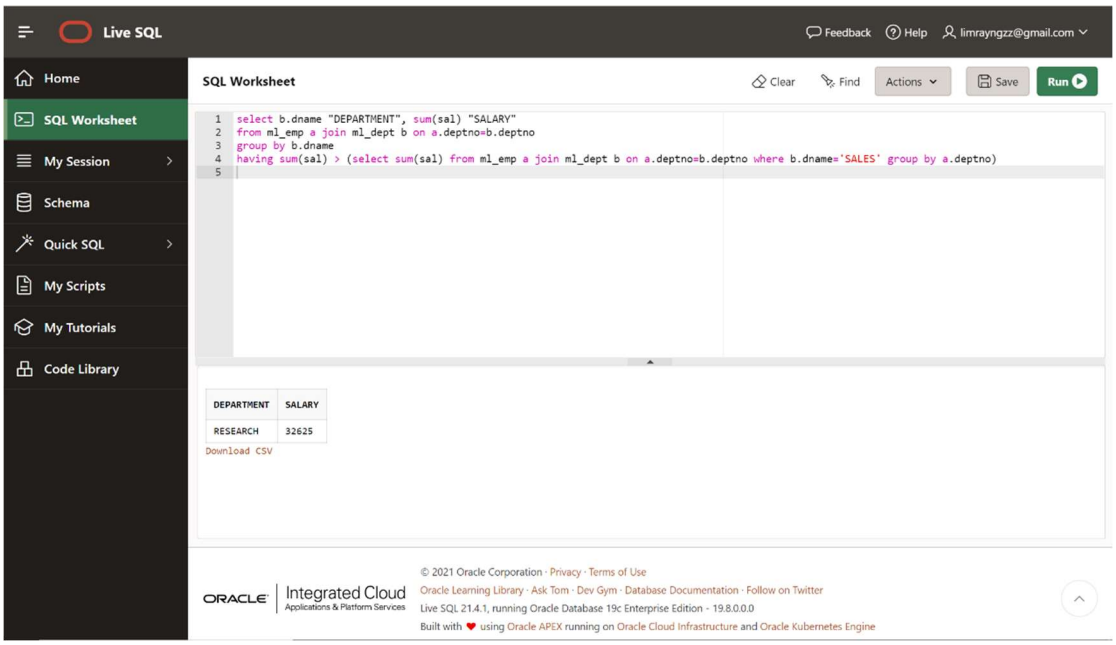
CS-GY 6083 B

11/19/2021

Problem1

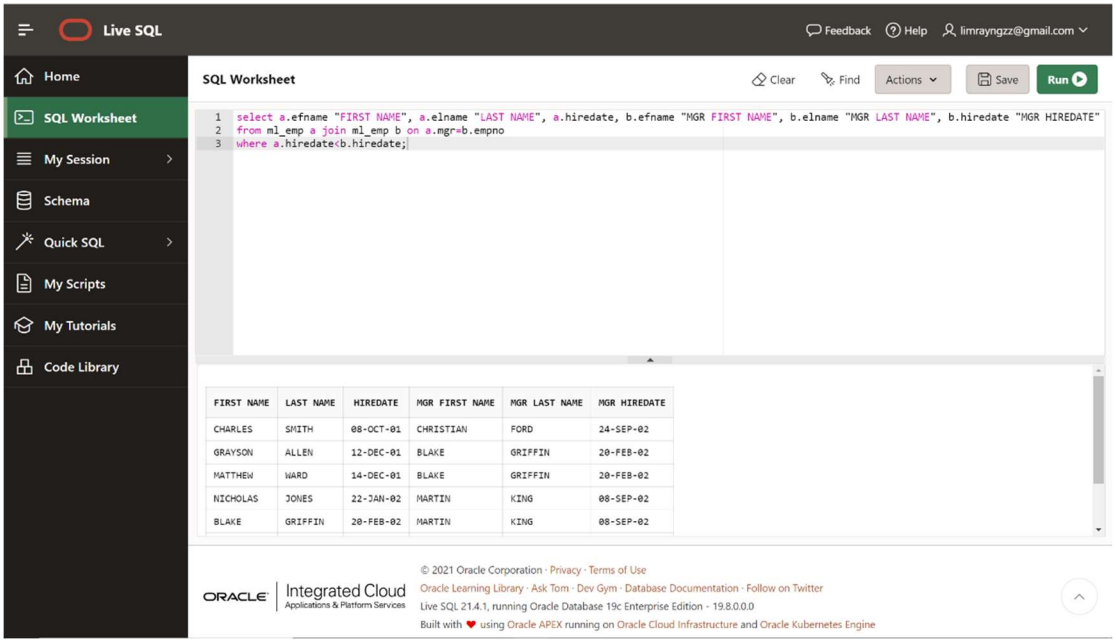
I.

```
select b.dname "DEPARTMENT", sum(sal) "SALARY"
from ml_emp a join ml_dept b on a.deptno=b.deptno
group by b.dname
having sum(sal) > (select sum(sal) from ml_emp a join ml_dept b on a.deptno=b.deptno
where b.dname='SALES' group by a.deptno)
```



II.

```
select a.efname "FIRST NAME", a.elname "LAST NAME", a.hiredate, b.efname
"MGR FIRST NAME", b.elname "MGR LAST NAME", b.hiredate "MGR
HIREDATE"
from ml_emp a join ml_emp b on a.mgr=b.empno
where a.hiredate<b.hiredate;
```

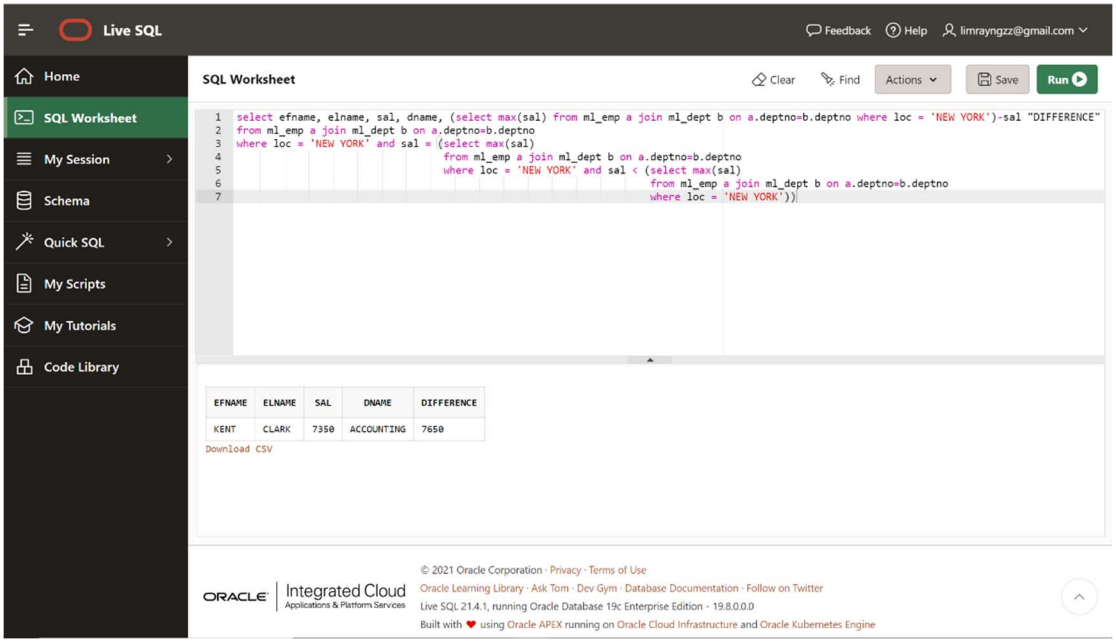


III.

select efname, elname, sal, dname, (select max(sal) from ml_emp a join ml_dept b on a.deptno=b.deptno where loc = 'NEW YORK')-sal "DIFFERENCE"
from ml_emp a join ml_dept b on a.deptno=b.deptno
where loc = 'NEW YORK' and sal = (select max(sal)
from ml_emp a join ml_dept b on a.deptno=b.deptno
where loc = 'NEW YORK' and sal < (select max(sal)

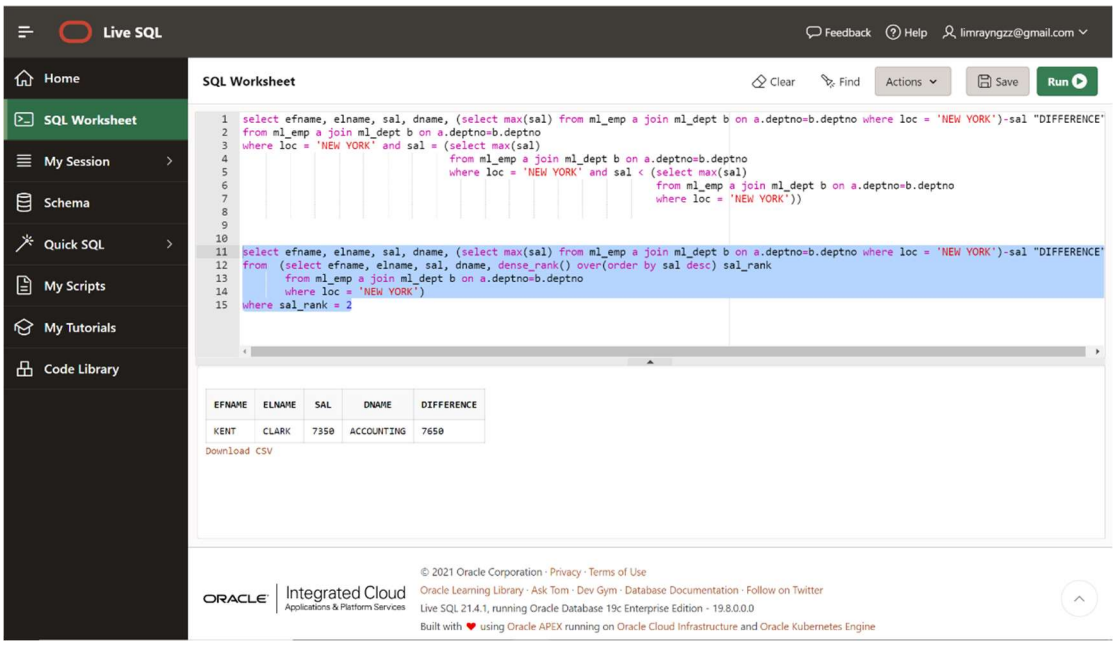
from ml_emp a join ml_dept b on a.deptno=b.deptno

where loc = 'NEW YORK'))



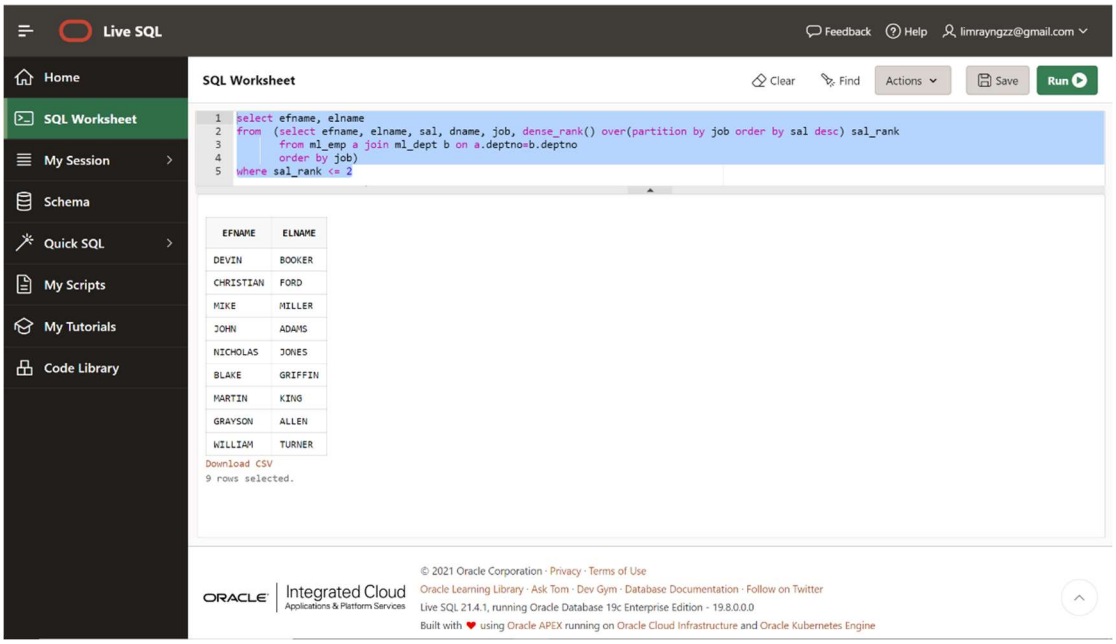
OR

select efname, elname, sal, dname, (select max(sal) from ml_emp a join ml_dept b on a.deptno=b.deptno where loc = 'NEW YORK')-sal "DIFFERENCE"
from (select efname, elname, sal, dname, dense_rank() over(order by sal desc) sal_rank
from ml_emp a join ml_dept b on a.deptno=b.deptno
where loc = 'NEW YORK')
where sal_rank = 2



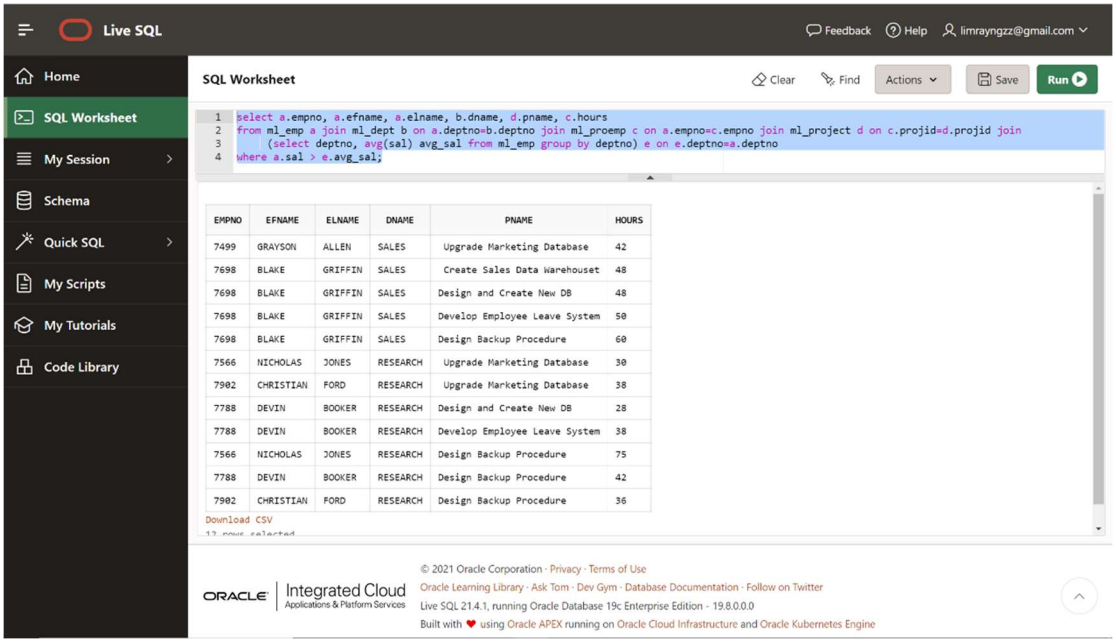
IV.

```
select efname, elname
from   (select efname, elname, sal, dname, job, dense_rank() over(partition by job order by sal desc) sal_rank
          from ml_emp a join ml_dept b on a.deptno=b.deptno
          order by job)
where sal_rank <= 2
```



V.

```
select a.empno, a.efname, a.elname, b.dname, d.pname, c.hours
from ml_emp a join ml_dept b on a.deptno=b.deptno join ml_proemp c on a.empno=c.empno join ml_project d on c.projid=d.projid join
     (select deptno, avg(sal) avg_sal from ml_emp group by deptno) e on e.deptno=a.deptno
where a.sal > e.avg_sal;
```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Code Library
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Clear
Find
Actions
Save
Run
1 select a.empno, a.efname, a.elname, b.dname, d.pname, c.hours
2 from ml_emp a join ml_dept b on a.deptno=b.deptno join ml_proemp c on a.empno=c.empno join ml_project d on c.projid=d.projid join
3 (select deptno, avg(sal) avg_sal from ml_emp group by deptno) e on e.deptno=a.deptno
4 where a.sal > e.avg_sal;
EMPNO EFNAME ELNAME DNAME PNAME HOURS
7499 GRAYSON ALLEN SALES Upgrade Marketing Database 42
7698 BLAKE GRIFFIN SALES Create Sales Data Warehouset 48
7698 BLAKE GRIFFIN SALES Design and Create New DB 48
7698 BLAKE GRIFFIN SALES Develop Employee Leave System 50
7698 BLAKE GRIFFIN SALES Design Backup Procedure 60
7566 NICHOLAS JONES RESEARCH Upgrade Marketing Database 30
7902 CHRISTIAN FORD RESEARCH Upgrade Marketing Database 38
7788 DEVIN BOOKER RESEARCH Design and Create New DB 28
7788 DEVIN BOOKER RESEARCH Develop Employee Leave System 38
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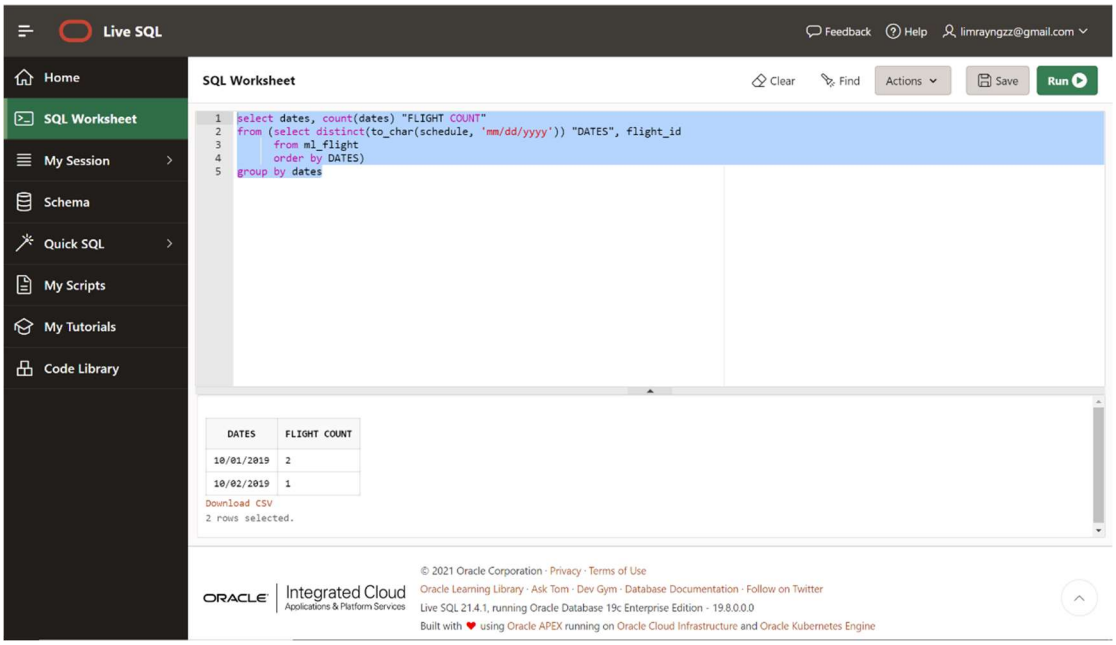
Problem2

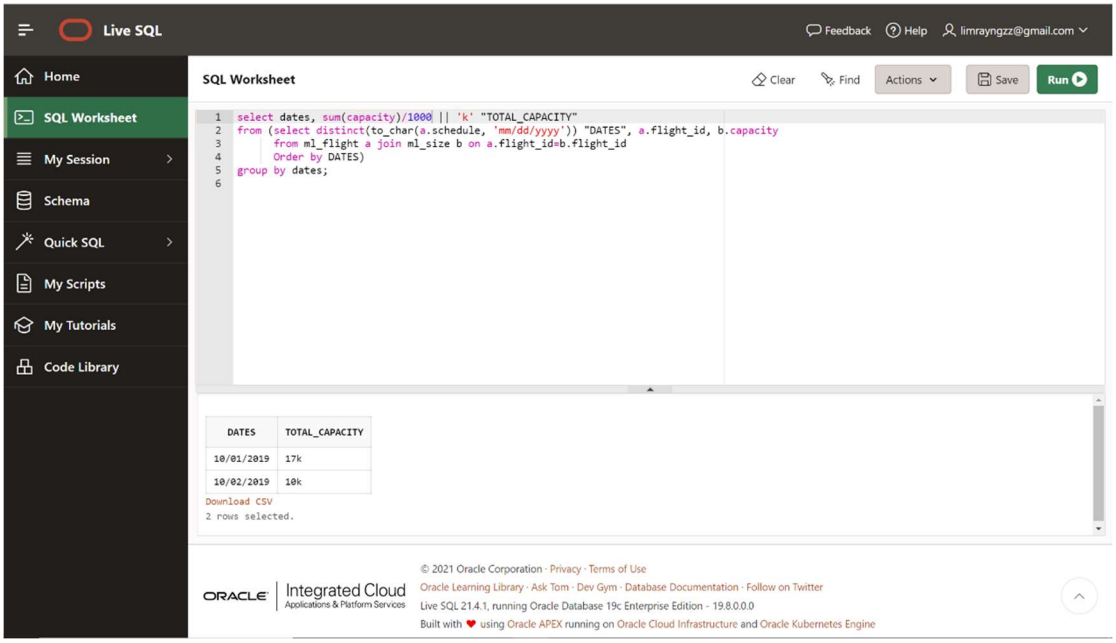
I.

```
select count(dates)
from (select distinct(to_char(schedule, 'dd-mon-yy')) "DATES", flight_id
        from ml_flight
        order by DATES)
group by dates
```



II.

```
select dates, sum(capacity)/1000 || 'k' "TOTAL_CAPACITY"
from (select distinct(to_char(a.schedule, 'mm/dd/yyyy')) "DATES", a.flight_id,
b.capacity
        from ml_flight a join ml_size b on a.flight_id=b.flight_id
        Order by DATES)
group by dates;
```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SQL Worksheet
Clear
Find
Actions
Save
Run
1 select dates, sum(capacity)/1000 || 'k' "TOTAL_CAPACITY"
2 from (select distinct(to_char(a.schedule, 'mm/dd/yyyy')) "DATES", a.flight_id, b.capacity
3 from ml_flight a join ml_size b on a.flight_id=b.flight_id
4 Order by DATES)
5 group by dates;
6
DATES
TOTAL_CAPACITY
10/01/2019
17k
10/02/2019
10k
Download CSV
2 rows selected.
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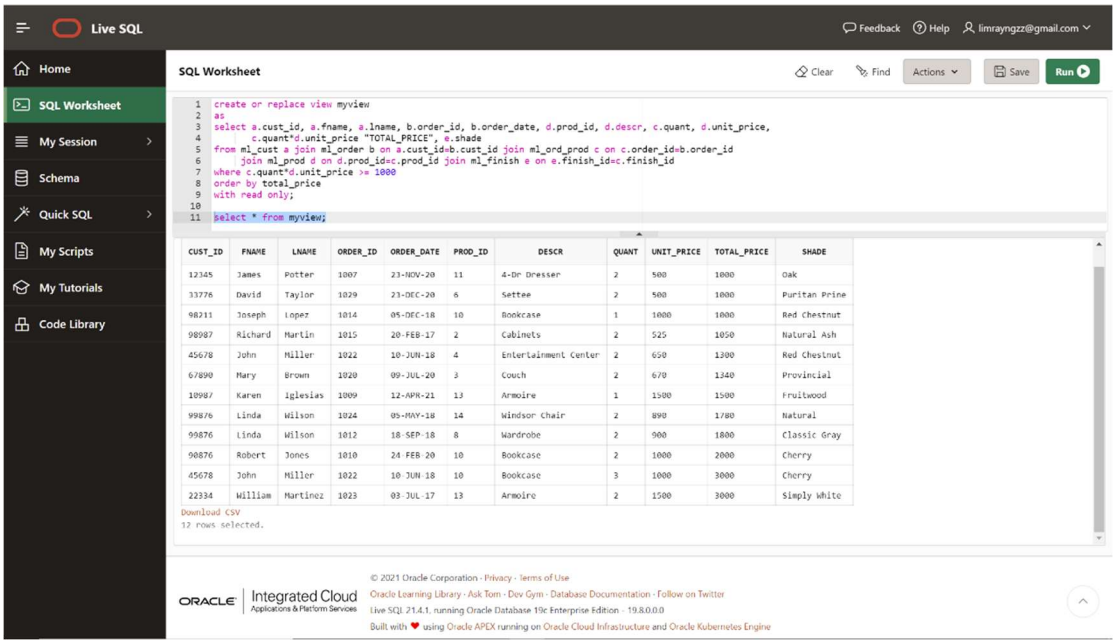
Built with ❤ using Oracle APEX running on Oracle Cloud Infrastructure and Oracle Kubernetes Engine

Problem3

I.

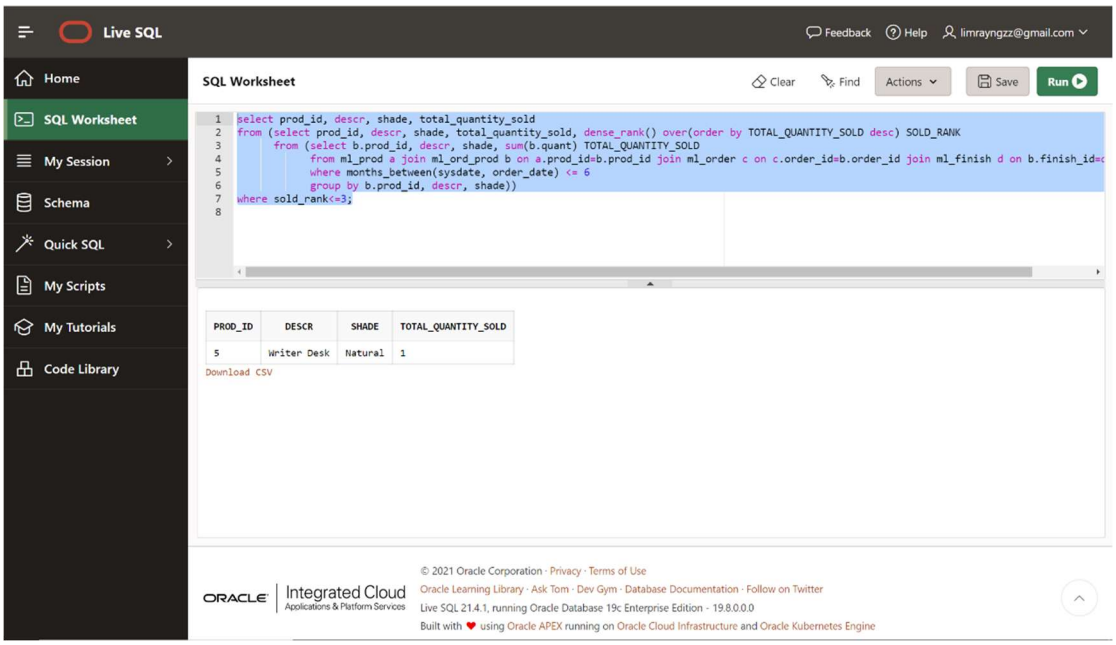
```
create or replace view myview
as
select a.cust_id, a.fname, a.lname, b.order_id, b.order_date, d.prod_id, d.descr, c.quant,
d.unit_price,
        c.quant*d.unit_price "TOTAL_PRICE", e.shade
from ml_cust a join ml_order b on a.cust_id=b.cust_id join ml_ord_prod c on
c.order_id=b.order_id
    join ml_prod d on d.prod_id=c.prod_id join ml_finish e on
e.finish_id=c.finish_id
where c.quant*d.unit_price >= 1000
order by total_price
with read only;

select * from myview;
```



II.

```
select prod_id, descr, shade, total_quantity_sold
from (select prod_id, descr, shade, total_quantity_sold, dense_rank() over(order by
TOTAL_QUANTITY_SOLD desc) SOLD_RANK
        from (select b.prod_id, descr, shade, sum(b.quant)
TOTAL_QUANTITY_SOLD
                from ml_prod a join ml_ord_prod b on a.prod_id=b.prod_id join
ml_order c on c.order_id=b.order_id join ml_finish d on b.finish_id=d.finish_id
```

```
        where months_between(sysdate, order_date) <= 6
        group by b.prod_id, descr, shade))
where sold_rank<=3;
```



III.

```
select a.prod_id, c.shade
from ml_ord_prod a join ml_order b on a.order_id=b.order_id join ml_finish c on c.finish_id=a.finish_id
where b.order_date not between to_date('2020-10-1', 'YYYY-MM-DD') and to_date('2020-12-31', 'YYYY-MM-DD');
```