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CS-GY 6083 B

11/19/2021

***Problem1***

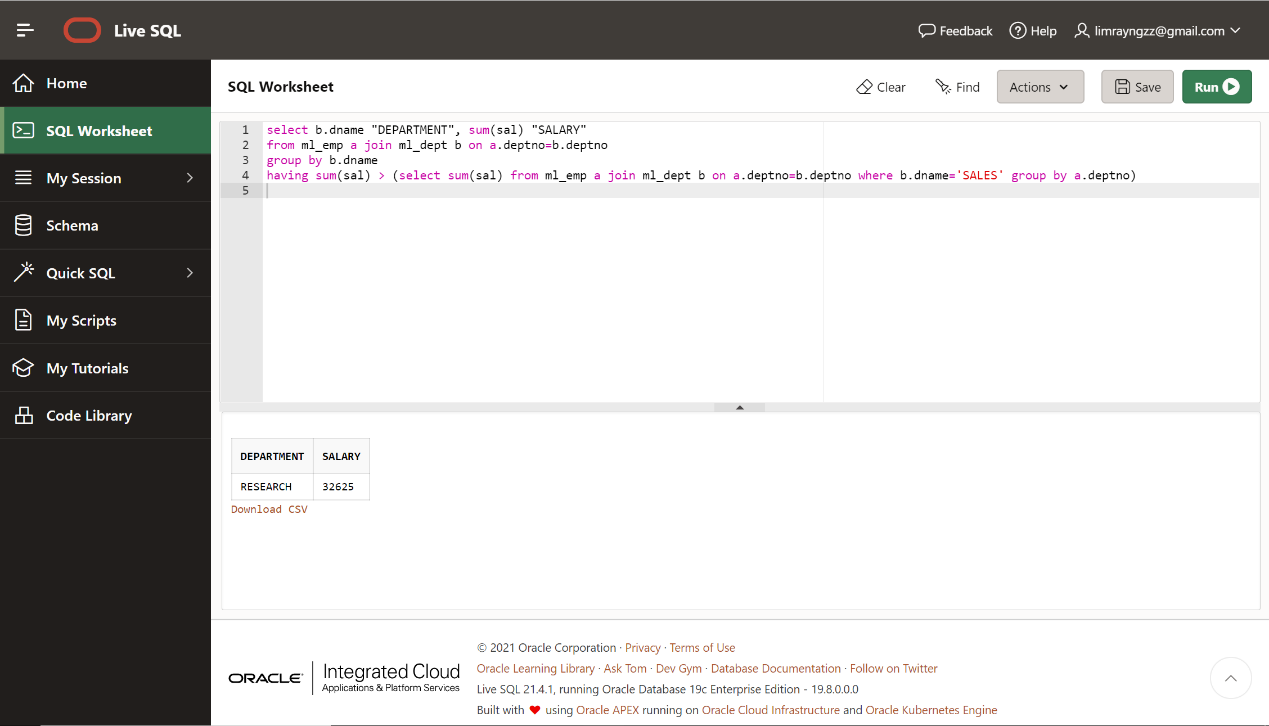
***I.***

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)

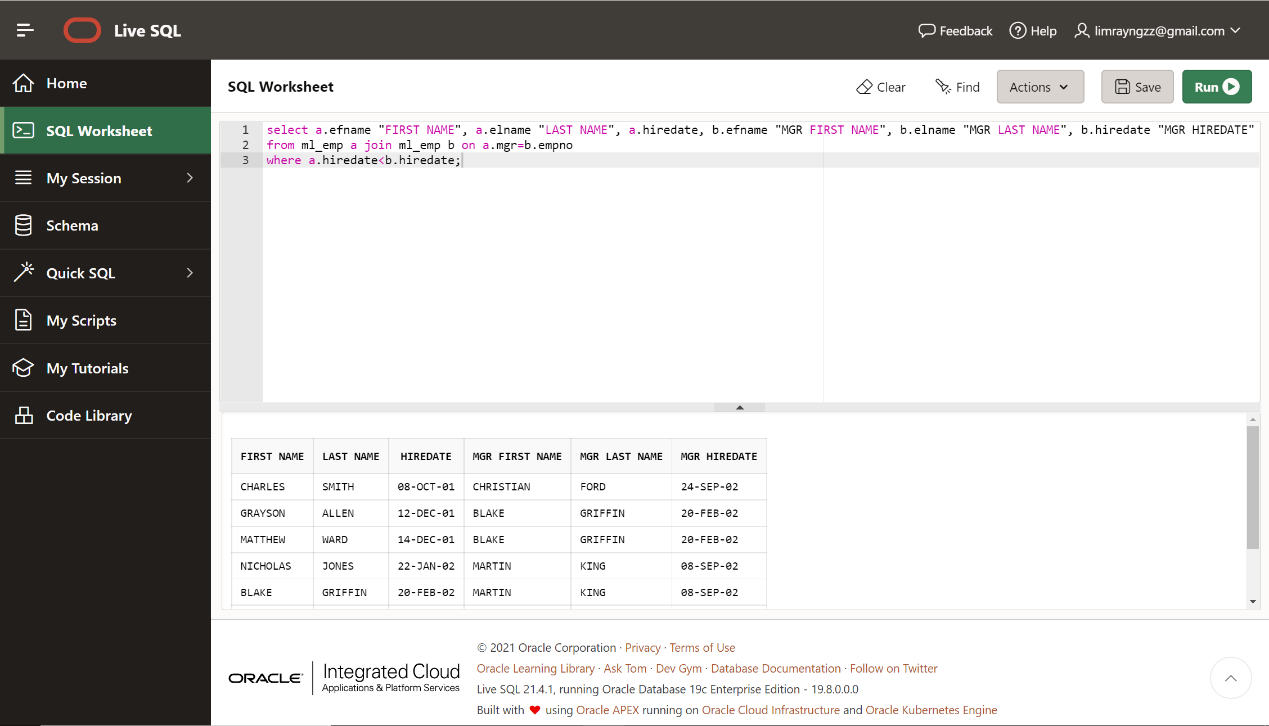


***II.***

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

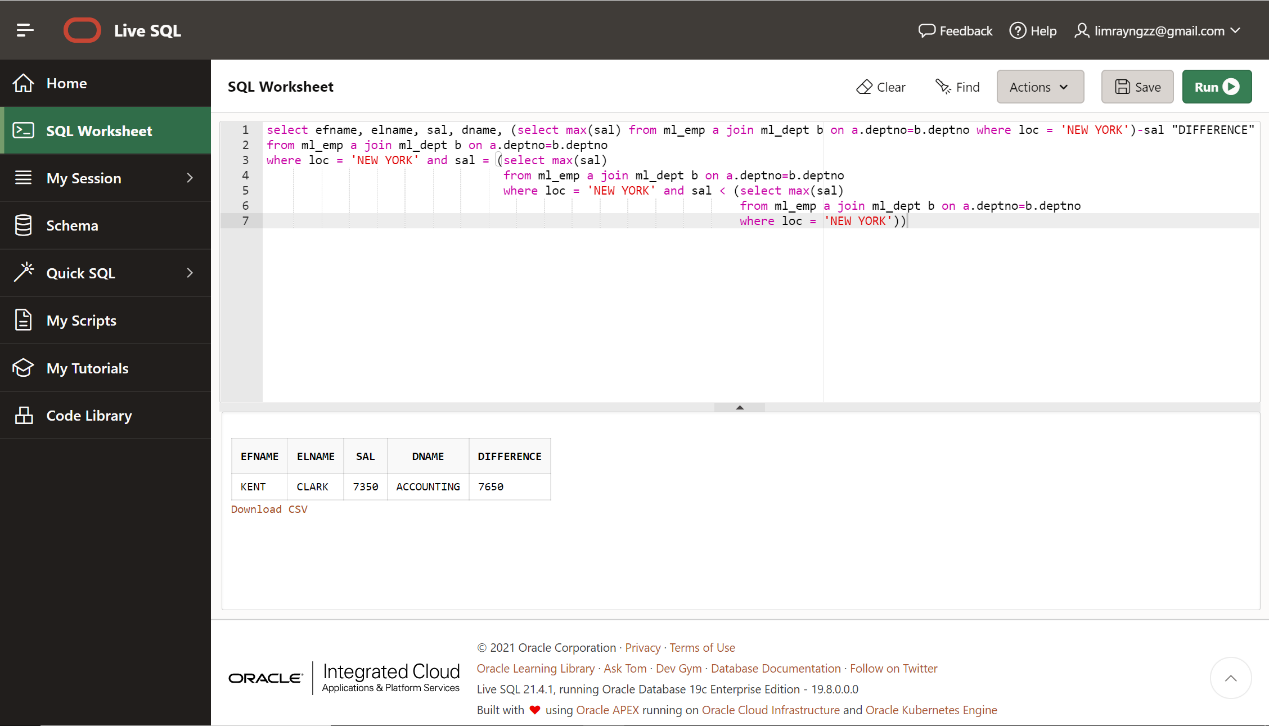
where loc = 'NEW YORK' and sal = (select max(sal)

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

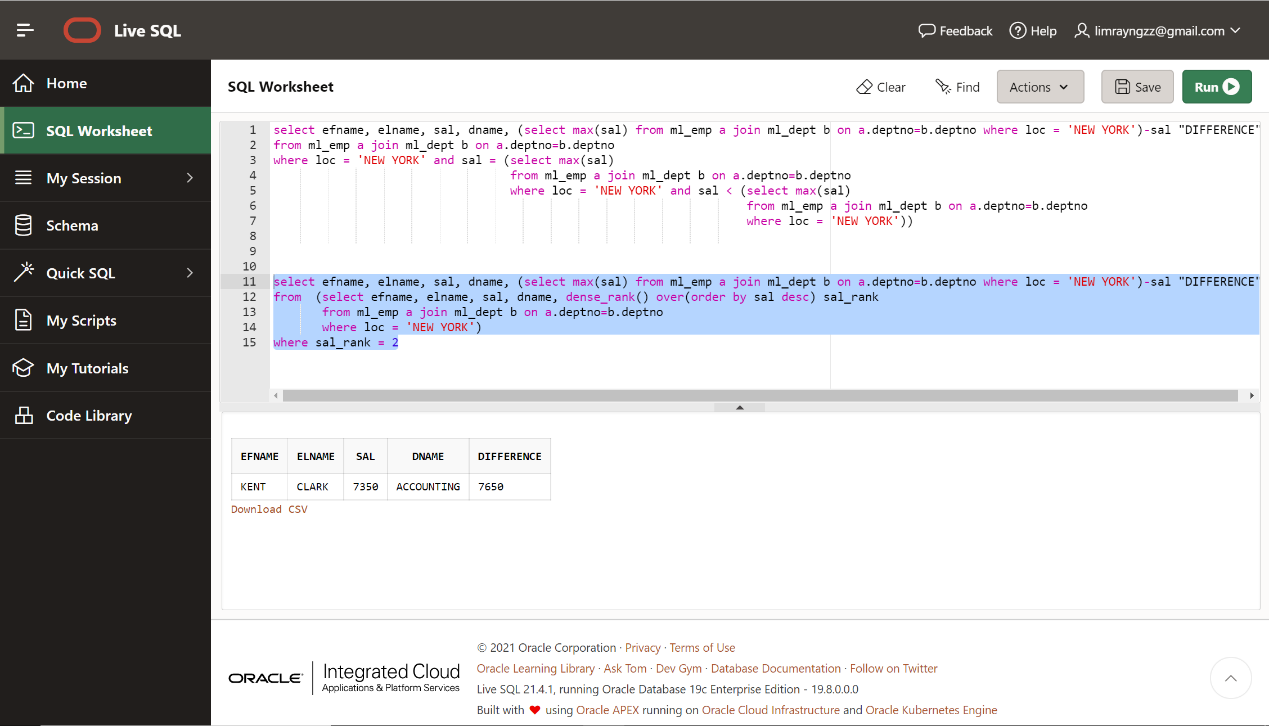
select efname, elname, sal, dname, (select max(sal) from ml\_emp a join ml\_dept b on a.deptno=b.deptno where loc = 'NEW YORK')-sal "DIFFERENCE"

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.***

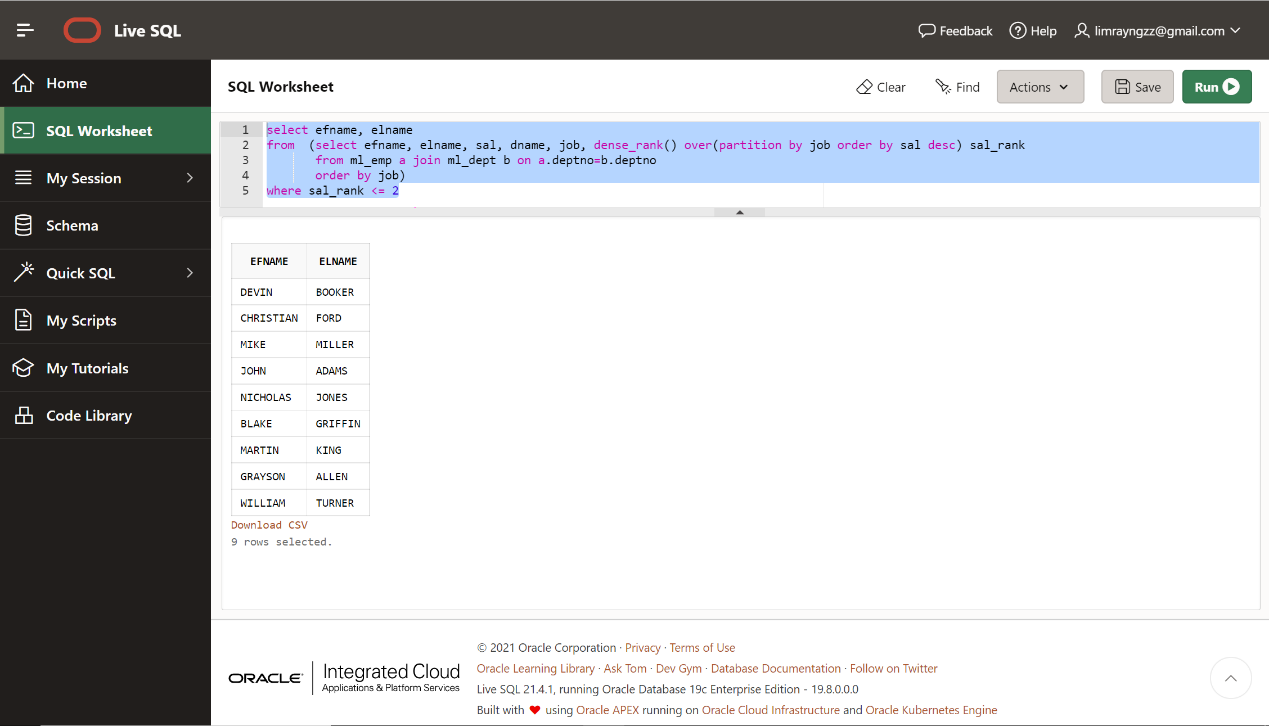
select efname, elname

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



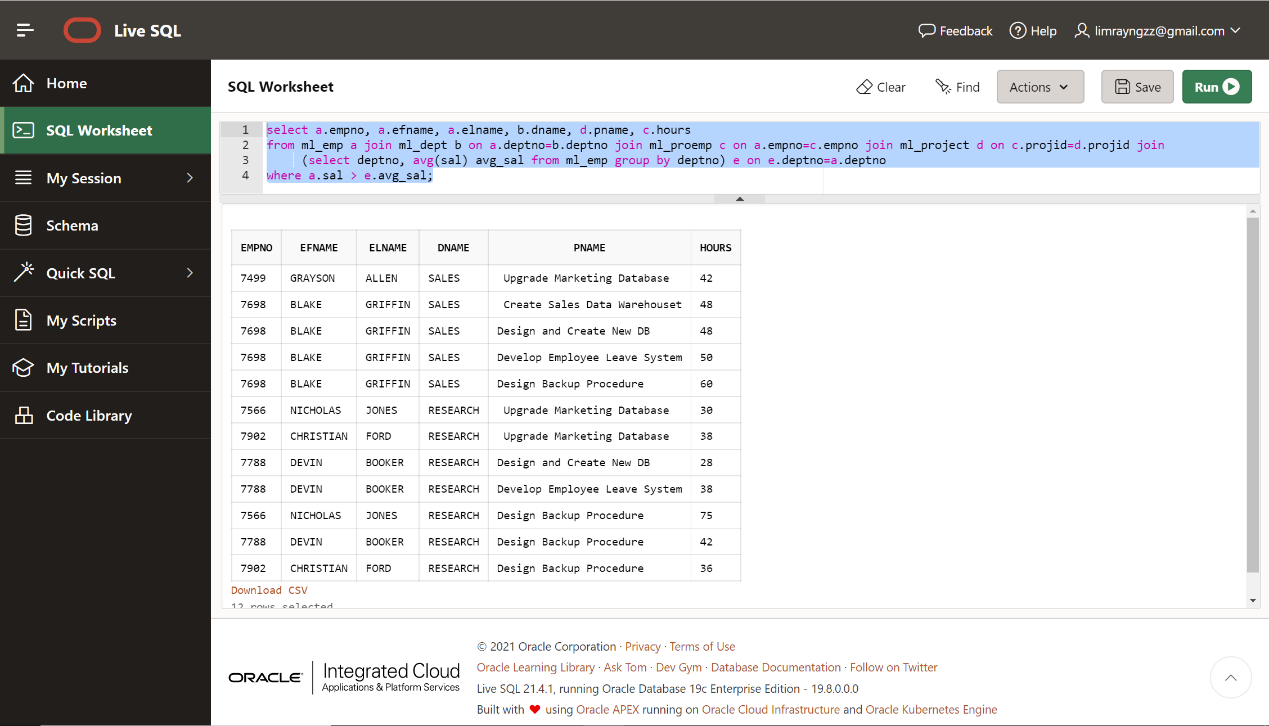
***V.***

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;



***Problem2***

***I.***

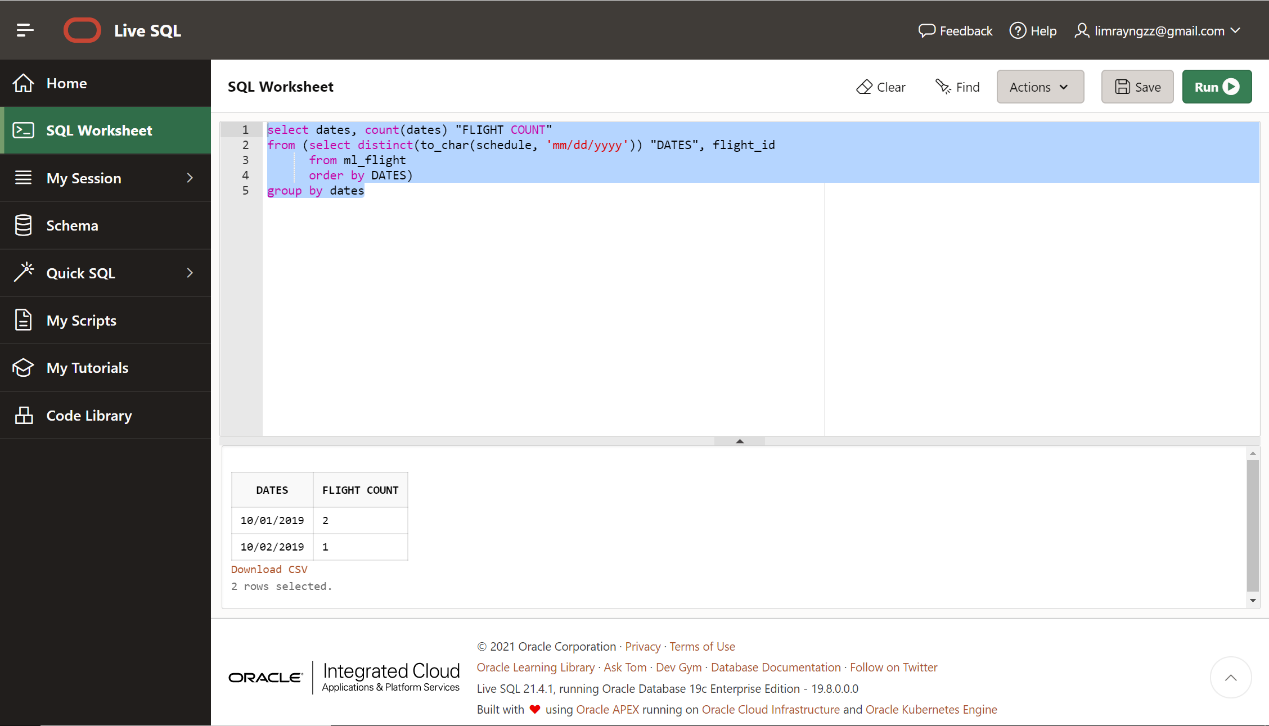
select count(dates)

from (select distinct(to\_char(schedule, 'dd-mon-yy')) "DATES", flight\_id

from ml\_flight

order by DATES)

group by dates



***II.***

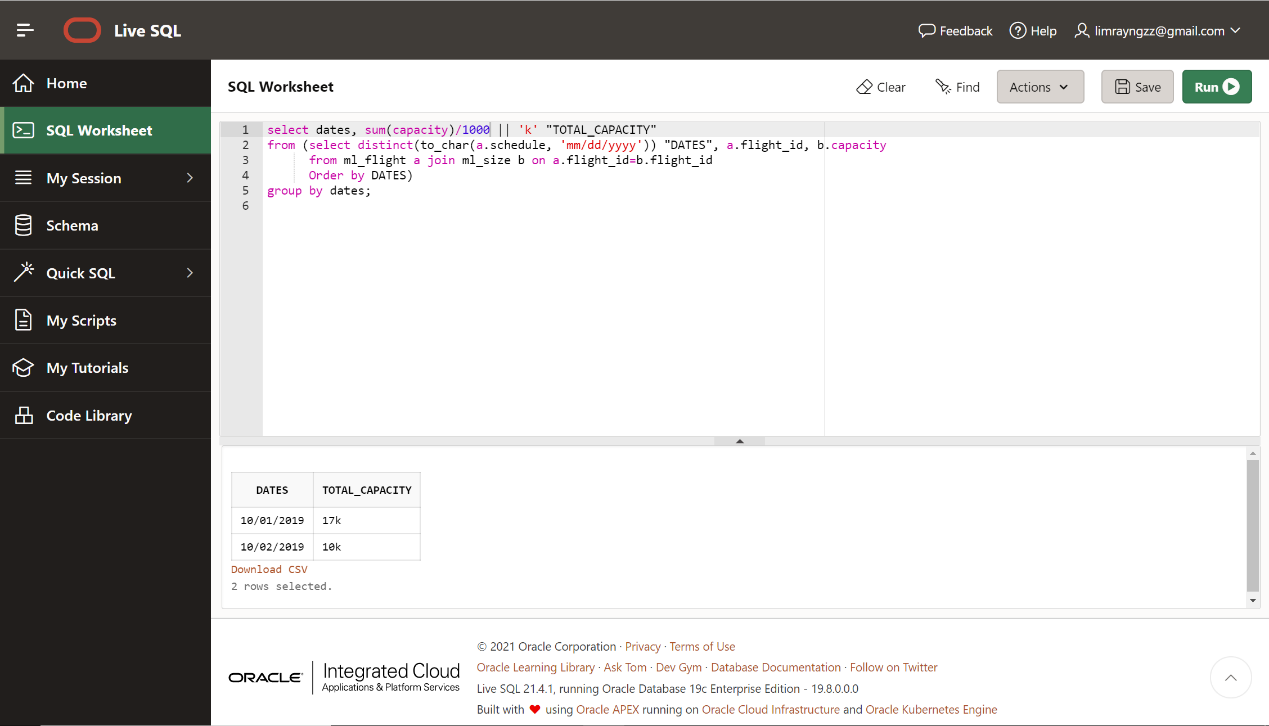
select dates, sum(capacity)/1000 || 'k' "TOTAL\_CAPACITY"

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;



***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

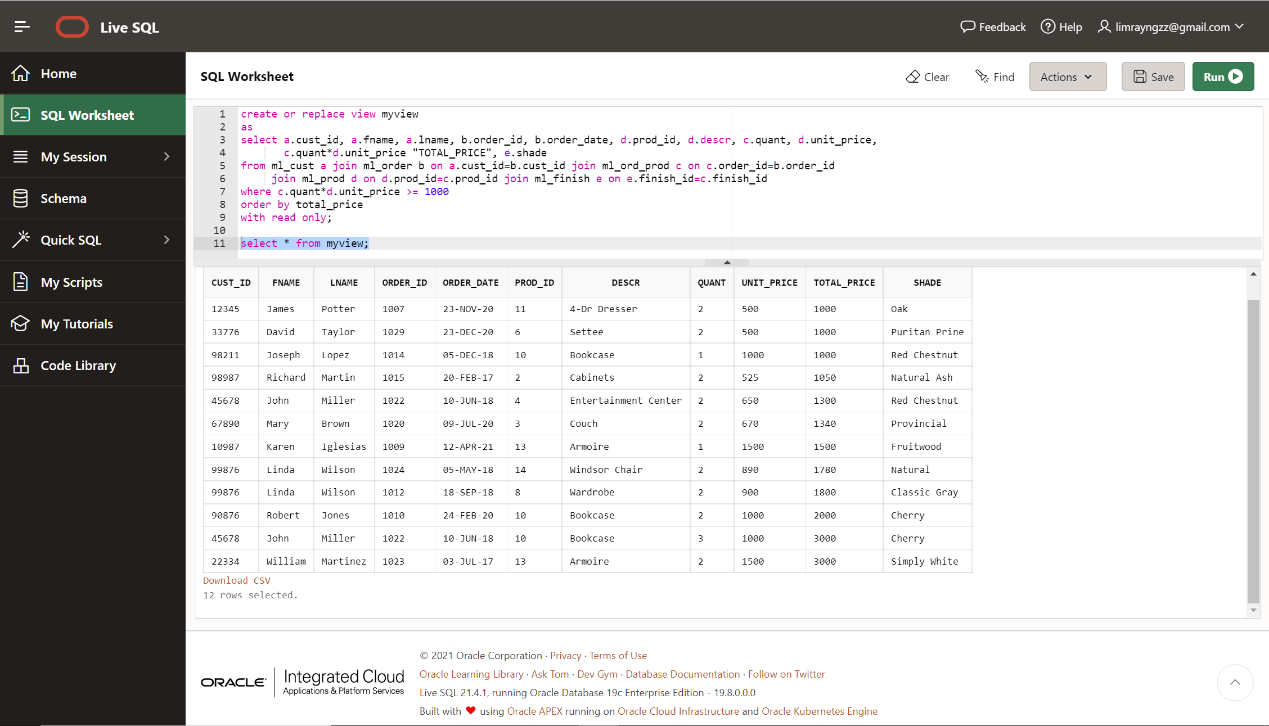
join ml\_prod d on d.prod\_id=c.prod\_id join ml\_finish e on e.finish\_id=c.finish\_id

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

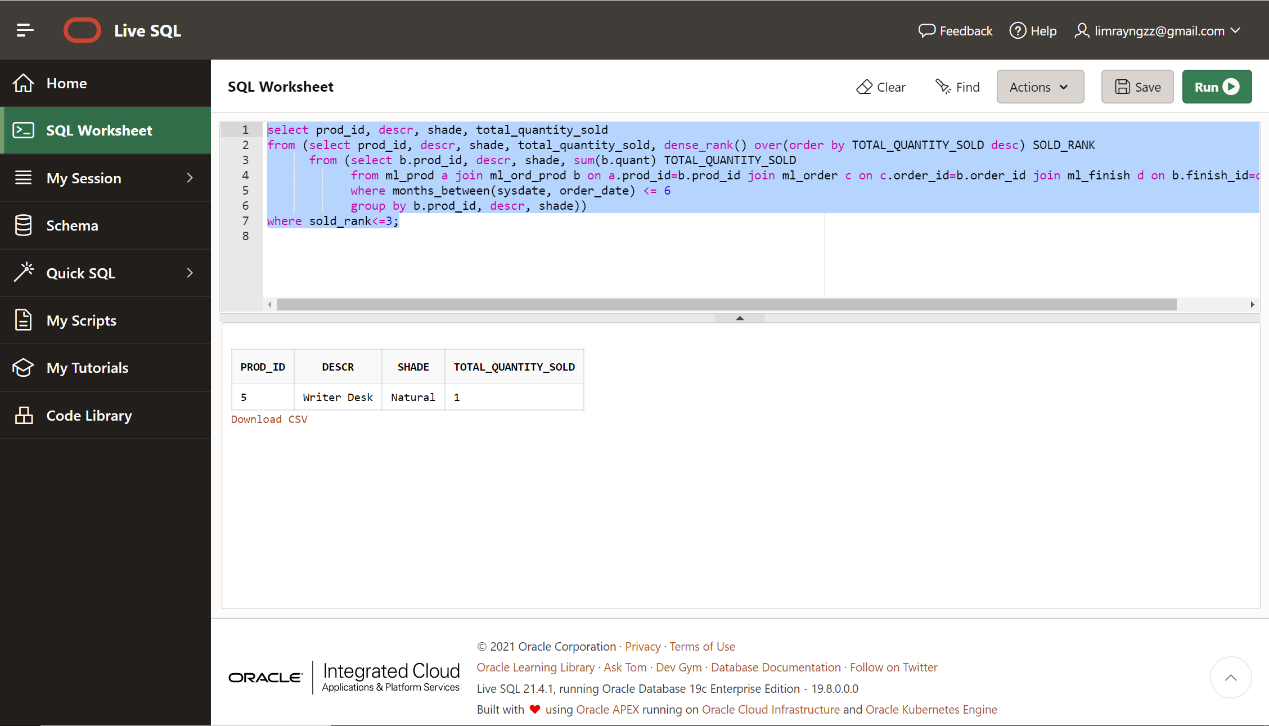
from (select b.prod\_id, descr, shade, sum(b.quant) TOTAL\_QUANTITY\_SOLD

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');

