Labaratory work

Task 1

with table1 as(select grade.student\_id, grade.GRADE\_TYPE\_CODE, avg(NUMERIC\_GRADE) as average,

grade\_type\_weight.section\_id

from grade left join GRADE\_TYPE\_weight on

grade.section\_id=GRADE\_TYPE\_weight.section\_id

group by grade.student\_id,

grade.grade\_type\_code, GRADE\_TYPE\_weight.section\_id),

table2 as(

select sum(average\*PERCENT\_OF\_FINAL\_GRADE/100) finalmark,table1.student\_id, table1.section\_id

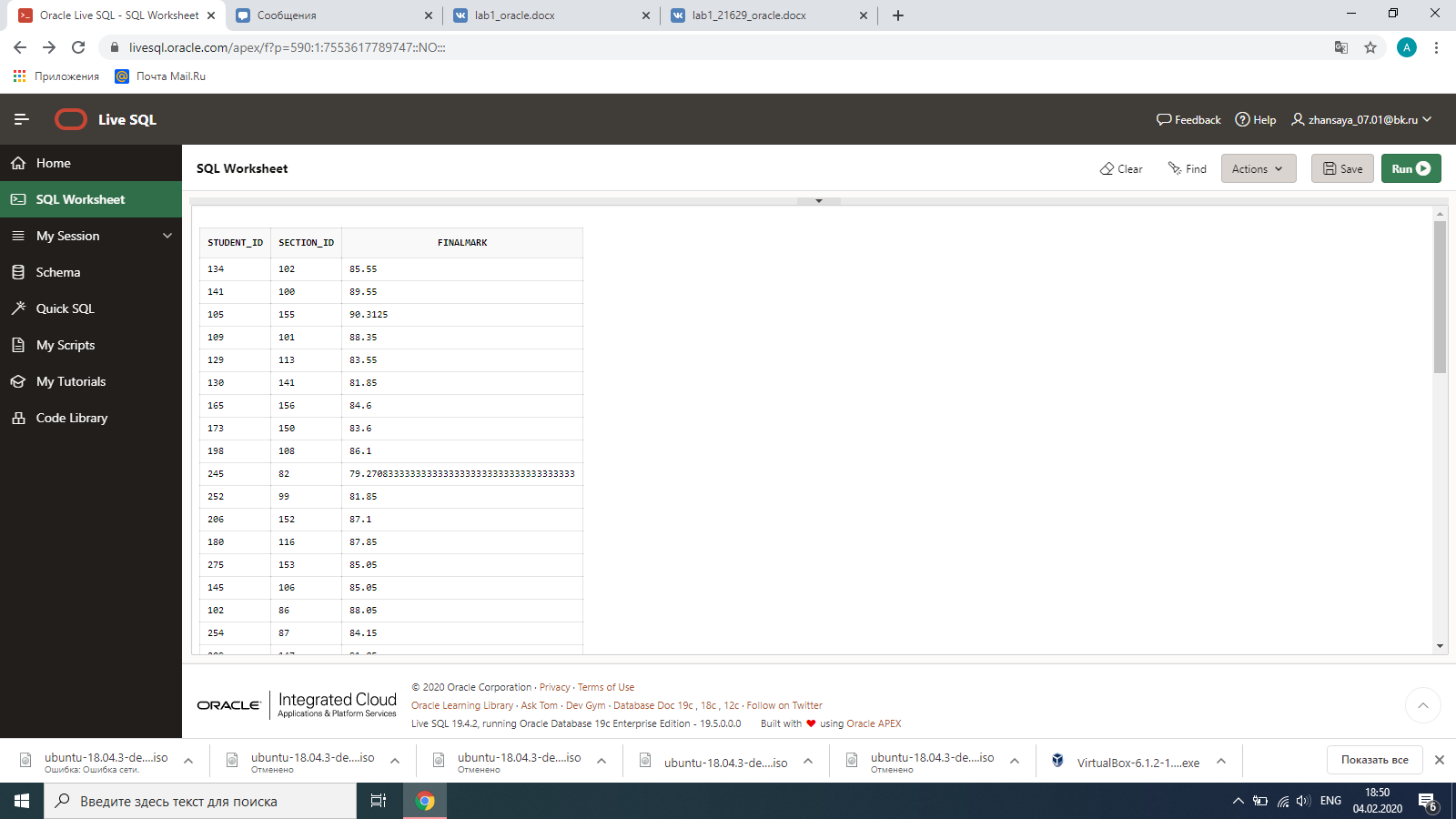
from grade\_type\_weight gtw

left join table1 on gtw.GRADE\_TYPE\_CODE=table1.GRADE\_TYPE\_CODE and gtw.section\_id=table1.section\_id

group by table1.student\_id, table1.section\_id

)

select student\_id, section\_id, finalmark from table2



Task 2

with query1 as(

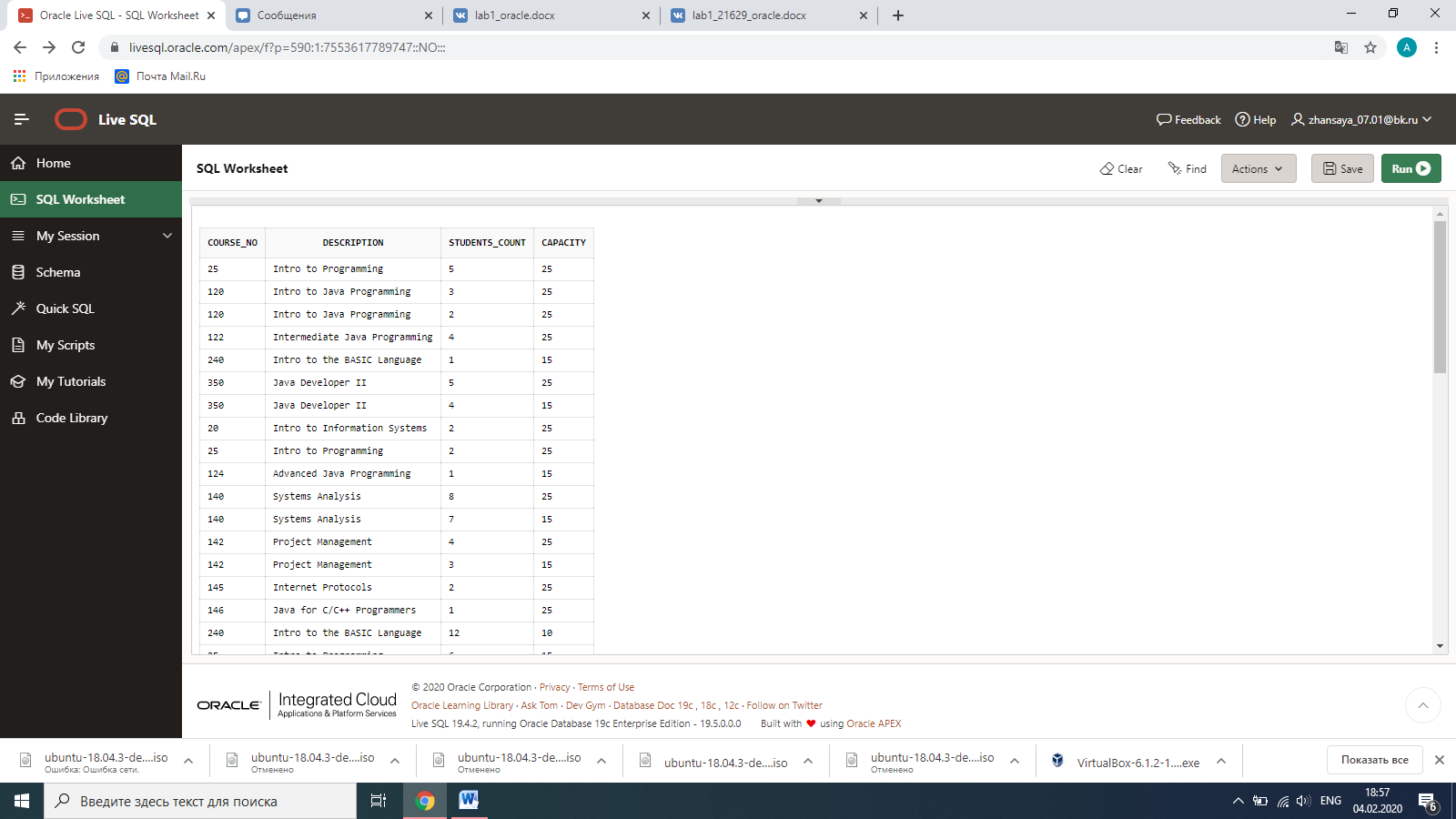
select section\_id, count(student\_id) as students\_count

from enrollment group by section\_id)

select section.course\_no, course.description, query1.students\_count,section.capacity

from ((section left join course on section.course\_no=course.course\_no

inner join query1 on query1.section\_id=section.section\_id))



Task 3

with query1 as(

select grade.student\_id, grade.GRADE\_TYPE\_CODE, avg(NUMERIC\_GRADE) as average,

grade\_type\_weight.section\_id from grade

left join GRADE\_TYPE\_weight on

grade.section\_id=GRADE\_TYPE\_weight.section\_id

group by grade.student\_id,grade.grade\_type\_code, GRADE\_TYPE\_weight.section\_id),

query2 as(

select sum(average\*PERCENT\_OF\_FINAL\_GRADE/100) finalmark,query1.student\_id, query1.section\_id

from grade\_type\_weight gtw left join query1 on gtw.GRADE\_TYPE\_CODE=query1.GRADE\_TYPE\_CODE and gtw.section\_id=query1.section\_id

group by query1.student\_id, query1.section\_id)

select student\_id, section\_id, finalmark, letter\_grade from grade\_conversion, query2

where finalmark<=max\_grade and finalmark>=min\_grade

