

„Технически университет“ - Варна

Факултет по изчислителна техника и автоматизация

Катедра: Софтуерни и интернет технологии

Курсов проект

по

Системи с бази от данни

ТЕМА: Хотел

Задание : 8

Проверил:

/доц. Гео Василев Кунев /

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Фак. №: 19621833

Курс: 3

Група: 3 \ б

Специалност: СИТ

Варна, 2021/2022

**Практическа работа СБД**

**Задание**

Да се проектира и реализира база от данни за **ХОТЕЛ**, която да съхранява следната информация:

• Клиент - име, адрес, телефон;

• Служител - име, позиция, телефон;

• Стая - номер, вид, цена

• Резервация - клиент, служител, стая, дата, период;

Правила:

• Всеки клиент може да има повече от една резервация, в различно време.

• Всяка стая може да има само един клиент по всяко време.

Базата от данни трябва да е **нормализирана** и да позволява:

1.**Въвеждане и корекции** на данни.

2.**Търсене/резервиране** на стая по: тип, дата, период.

3.**Справки** за:

• обща сметка на клиент;

• свободни стаи за тип/дата/период;

• резервации за служител, подредени по дата.

Документацията към реализирания проект трябва да съдържа:

• Модели (Oracle Data Modeler) - 4 седмица;

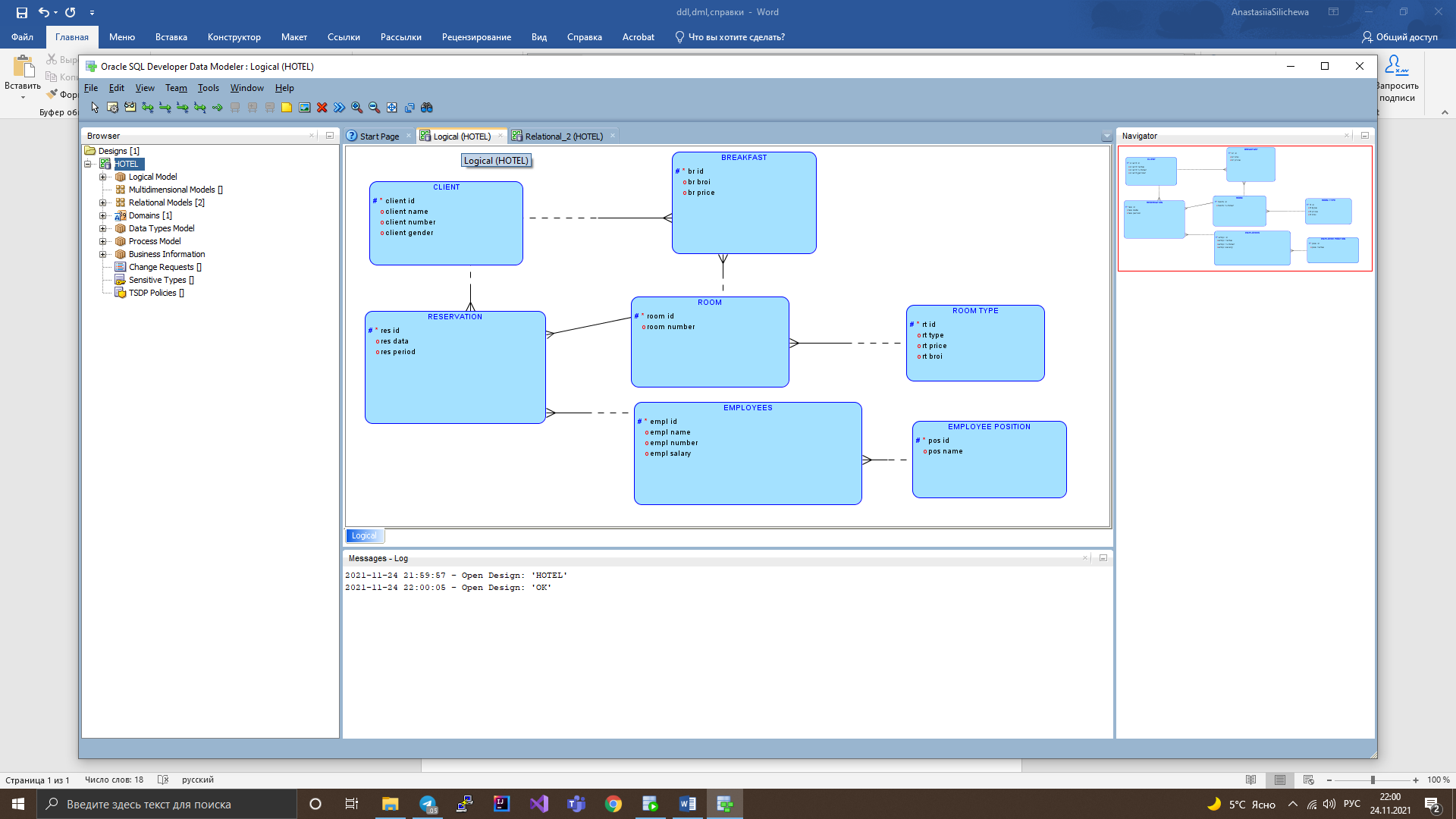
• Примерни данни;

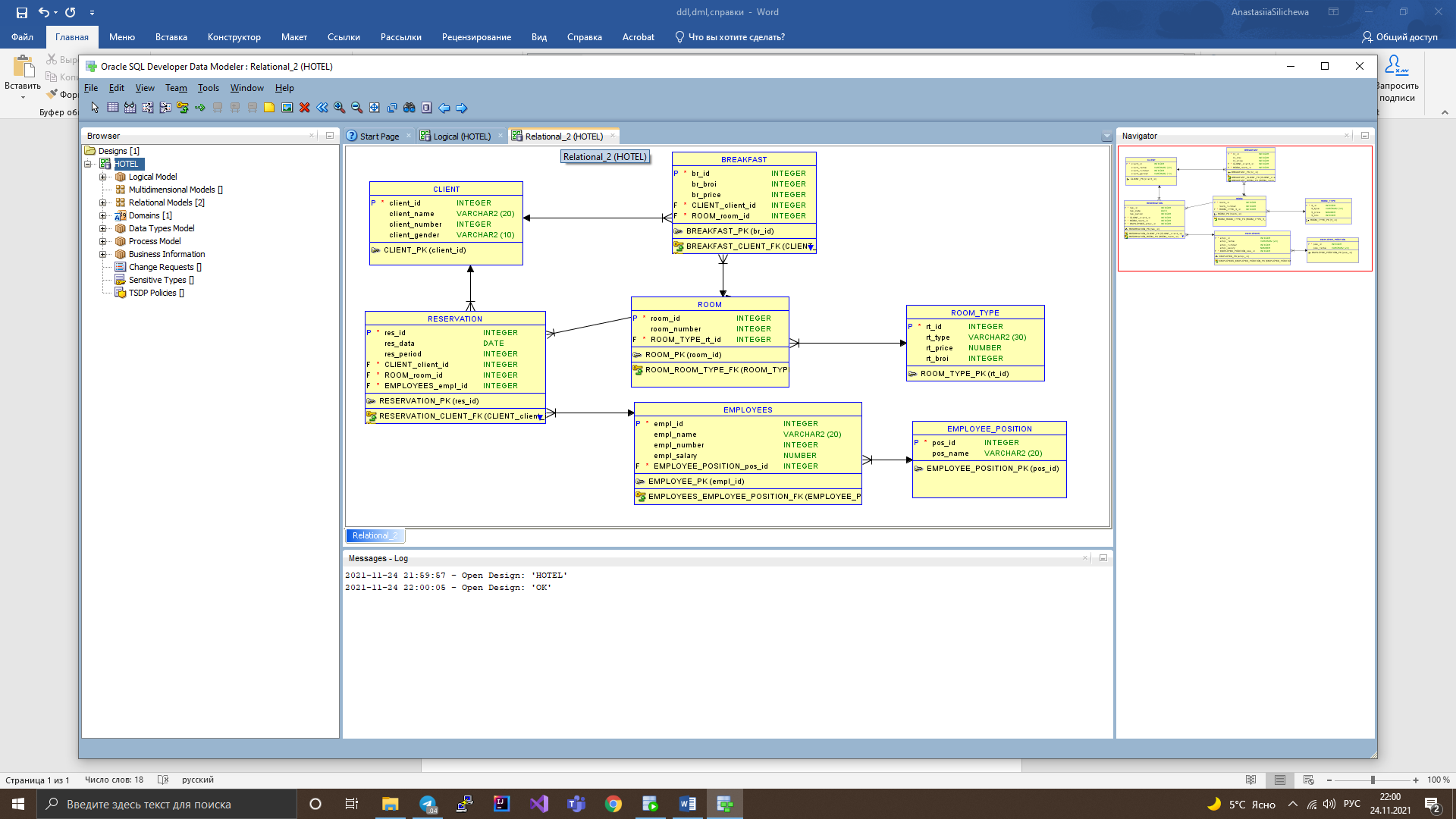
• SQL команди - DDL, DML - 8 седмица;

• Резултати от изпълнението на заявките;

• PL/SQL процедури/тригери/курсори - 12 седмица.

Relation and Logical Model by DDM





/\*////////////////////////////////////////////////////////////////////////////////// CREATE AND PK AND FK /////////////////////////////////////////////////\*/

CREATE TABLE CLIENT(

client\_id INTEGER NOT NULL,

client\_name VARCHAR2(20),

client\_number INTEGER NOT NULL,

client\_gender VARCHAR2(10));

ALTER TABLE CLIENT ADD CONSTRAINT CLIENT\_PK PRIMARY KEY(client\_id);

CREATE TABLE EMPLOYEE\_POSITION(

pos\_id INTEGER NOT NULL,

pos\_name VARCHAR2(20)

);

ALTER TABLE EMPLOYEE\_POSITION ADD CONSTRAINT EMPLOYEE\_POSITION\_PK PRIMARY KEY(pos\_id);

CREATE TABLE EMPLOYEES(

empl\_id INTEGER NOT NULL,

empl\_name VARCHAR2(20),

empl\_number INTEGER NOT NULL,

empl\_salary NUMBER,

pos\_id INTEGER);

ALTER TABLE EMPLOYEES ADD CONSTRAINT EMPLOYEES\_PK PRIMARY KEY(empl\_id);

ALTER TABLE EMPLOYEES ADD CONSTRAINT EMPLOYEES\_EMPLOYEE\_POSITION\_FK FOREIGN KEY(pos\_id)

REFERENCES EMPLOYEE\_POSITION(pos\_id);

CREATE TABLE ROOM\_TYPE(

rt\_id INTEGER NOT NULL,

rt\_type VARCHAR2(20) ,

rt\_price NUMBER,

rt\_broi INTEGER NOT NULL);

ALTER TABLE ROOM\_TYPE ADD CONSTRAINT ROOM\_TYPE\_PK PRIMARY KEY(rt\_id);

CREATE TABLE ROOM(

room\_id INTEGER NOT NULL,

room\_number INTEGER NOT NULL,

rt\_id INTEGER);

ALTER TABLE ROOM ADD CONSTRAINT ROOM\_PK PRIMARY KEY (room\_id);

ALTER TABLE ROOM ADD CONSTRAINT ROOM\_ROOM\_TYPE\_FK FOREIGN KEY(rt\_id)

REFERENCES ROOM\_TYPE(rt\_id);

CREATE TABLE BREAKFAST(

br\_id INTEGER NOT NULL,

br\_broi INTEGER NOT NULL ,

br\_price INTEGER NOT NULL,

client\_id INTEGER,

room\_id INTEGER);

ALTER TABLE BREAKFAST ADD CONSTRAINT BREAKFAST\_PK PRIMARY KEY(br\_id);

ALTER TABLE BREAKFAST ADD CONSTRAINT BREAKFAST\_CLIENT\_FK FOREIGN KEY(client\_id)

REFERENCES CLIENT(client\_id);

ALTER TABLE BREAKFAST ADD CONSTRAINT BREAKFAST\_ROOM\_FK FOREIGN KEY(room\_id)

REFERENCES ROOM(room\_id);

CREATE TABLE RESERVATION(

res\_id INTEGER NOT NULL,

res\_data Date,

res\_period INTEGER NOT NULL,

client\_id INTEGER,

room\_id INTEGER,

empl\_id INTEGER);

ALTER TABLE RESERVATION ADD CONSTRAINT RESERVATION\_PK PRIMARY KEY (res\_id);

ALTER TABLE RESERVATION ADD CONSTRAINT RESERVATION\_CLIENT\_FK FOREIGN KEY(client\_id)

REFERENCES CLIENT(client\_id);

ALTER TABLE RESERVATION ADD CONSTRAINT RESERVATION\_ROOM\_FK FOREIGN KEY(room\_id)

REFERENCES ROOM(room\_id);

ALTER TABLE RESERVATION ADD CONSTRAINT RESERVATION\_EMPLOYEES\_FK FOREIGN KEY(empl\_id)

REFERENCES EMPLOYEES(empl\_id);

/\*////////////////////////////////////////////////////////////////////////////////////////////// INSERT ///////////////////////////////////////////////////////////////////////\*/

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(1,'Natalya Bogach',359893018956,'Female');

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(2,'Valeria Svoy',359892015247,'Female');

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(3,'Alexandr Chavdar',359893065892,'Male');

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(4,'Svetoslav Phedorov',359893021476,'Male');

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(5,'Andrey Muhin',359893065473,'Male');

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(6,'Elizabeth Bezverhaya',359893036548,'Female');

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(7,'Mariya Makarova ',359893039863,'Female');

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(8,'Nikita Butrik',359893065897,'Male');

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(9,'Nikolay Onishenko',359893036547,'Male');

INSERT INTO CLIENT(

client\_id ,

client\_name ,

client\_number ,

client\_gender )

Values(10,'Arina Nalivanaya',359893036547,'Female');

/\*/////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////\*/

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(1,'Hotel Manager');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(2,'Front Desk Clerks');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(3,'Room Service');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(4,'Waiter/Waitress');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(5,'Kitchen Staff');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(6,'Kitchen Manager');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(7,'Restaurant Manager');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(8,'Executive Chef');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(9,'Market and Advert');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(10,'Event Planner');

INSERT INTO EMPLOYEE\_POSITION(

pos\_id ,

pos\_name )

Values(11,'Assis Hotel Manag');

/\*////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////\*/

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(1,'Merry Berry',359874568925,810.99,11);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(2,'Nikolas Champe',359874565896,610.99,10);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(3,'Mariyana Nikolova',359874566589,780.99,9);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(4,'Vasya Vaasilyev',359874565872,855.99,8);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(5,'Artur Dimitrenko',359874562536,720.99,7);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(6,'Boris Vasilev',359874566478,730.99,6);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(7,'Ekaterina Dobrova',359864788925,520.99,5);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(8,'Nina Bezrukova',359876782925,489.99,4);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(9,'Taisiya Uzun',358735832925,456.99,3);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(10,'Valeriya Scripnik',359874214925,465.99,2);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(11,'Valentin Krupin',359874583625,982.99,1);

INSERT INTO EMPLOYEES(

empl\_id ,

empl\_name ,

empl\_number ,

empl\_salary ,

pos\_id )

Values(12,'Nikita Bessonov',359876754875,489.99,4);

/\*///////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////\*/

INSERT INTO ROOM\_TYPE(

rt\_id ,

rt\_type ,

rt\_price,rt\_broi )

Values(1,'For 1 person',59.99,15);

INSERT INTO ROOM\_TYPE(

rt\_id ,

rt\_type ,

rt\_price,rt\_broi )

Values(2,'For 2 person',109.99,12);

INSERT INTO ROOM\_TYPE(

rt\_id ,

rt\_type ,

rt\_price,rt\_broi )

Values(3,'For 3 person',149.99,6);

INSERT INTO ROOM\_TYPE(

rt\_id ,

rt\_type ,

rt\_price,rt\_broi )

Values(4,'For family ',185.99,2);

INSERT INTO ROOM\_TYPE(

rt\_id ,

rt\_type ,

rt\_price,rt\_broi )

Values(5,'For 1 person LUXE',89.99,8);

INSERT INTO ROOM\_TYPE(

rt\_id ,

rt\_type ,

rt\_price,rt\_broi )

Values(6,'For 2 person LUXE',139.99,5);

INSERT INTO ROOM\_TYPE(

rt\_id ,

rt\_type ,

rt\_price,rt\_broi )

Values(7,'For 1 person VIP',109.99,6);

INSERT INTO ROOM\_TYPE(

rt\_id ,

rt\_type ,

rt\_price,rt\_broi )

Values(8,'For 2 person VIP',186.99,8);

/\*/////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////\*/

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(1,101,2);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(2,121,1);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(3,421,7);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(4,461,7);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(5,251,4);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(6,181,1);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(7,381,5);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(8,361,6);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(9,131,2);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(10,191,1);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(11,498,7);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(12,423,6);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(13,412,6);

INSERT INTO ROOM(

room\_id ,

room\_number ,

rt\_id )

Values(14,191,2);

/\*/////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////\*/

INSERT INTO BREAKFAST(

br\_id ,

br\_broi ,

br\_price ,

client\_id ,

room\_id )

Values(1,2,19.99,2,4);

INSERT INTO BREAKFAST(

br\_id ,

br\_broi ,

br\_price ,

client\_id ,

room\_id )

Values(2,1,8.99,7,2);

INSERT INTO BREAKFAST(

br\_id ,

br\_broi ,

br\_price ,

client\_id ,

room\_id )

Values(3,2,31.99,8,5);

INSERT INTO BREAKFAST(

br\_id ,

br\_broi ,

br\_price ,

client\_id ,

room\_id )

Values(4,3,32.99,7,7);

INSERT INTO BREAKFAST(

br\_id ,

br\_broi ,

br\_price ,

client\_id ,

room\_id )

Values(5,1,11.99,7,8);

INSERT INTO BREAKFAST(

br\_id ,

br\_broi ,

br\_price ,

client\_id ,

room\_id )

Values(6,2,22.99,7,11);

/\*////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////\*/

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(1,'23-DEC-2021',14,1,1,4);

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(2,'12-DEC-2021',4,2,6,2);

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(3,'5-JAN-2021',8,3,5,3);

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(4,'10-JAN-2022',9,4,2,1);

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(5,'2-FEB-2022',8,5,4,10);

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(6,'20-MAY-2022',14,6,3,11);

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(7,'25-MAY-2022',10,7,8,1);

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(8,'5-DEC-2021',5,8,7,10);

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(9,'12-DEC-2021',6,8,11,11);

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(10,'12-FEB-2022',10,10,10,1);

/\*///////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////\*/

/\*////////////////////////////////////////////////////////////////// FOR DELETE ///////////////////////////////////////////////////////\*/

INSERT INTO RESERVATION(

res\_id ,

res\_data ,

res\_period ,

client\_id ,

room\_id ,

empl\_id )

Values(11,'22-FEB-2022',11,10,10,10);

/\*//////////////////////////////////////////////////////////////// UPDATE ///////////////////////////////////////////////////////////////////////////////\*/

UPDATE CLIENT

SET

CLIENT\_NAME='Lisa Belka'

WHERE CLIENT\_ID=3;

UPDATE BREAKFAST

SET BR\_BROI=4

WHERE BR\_ID=3;

UPDATE EMPLOYEE\_POSITION

SET POS\_NAME='M. MANAGER '

WHERE POS\_ID=2;

UPDATE EMPLOYEES

SET EMPL\_NAME='Mira Verenkova'

WHERE EMPL\_ID=3;

UPDATE RESERVATION

SET RES\_DATA='25-MAR-2022',

RES\_PERIOD=5,

CLIENT\_ID=3,

ROOM\_ID=2,

EMPL\_ID=10

WHERE RES\_ID=2;

UPDATE ROOM

SET ROOM\_NUMBER=254

WHERE ROOM\_ID=4;

UPDATE ROOM\_TYPE

SET

RT\_BROI=5

WHERE RT\_ID=1;

/\*/////////////////////////////////////////////////////////////////////// DELETE //////////////////////////////////////////////\*/

DELETE FROM RESERVATION

WHERE RES\_ID=11;

/\*//////////////////////////////////////////////////////////////////////////////////// SEARCHING ///////////////////////////////////\*/

SELECT R.RES\_DATA,R.RES\_PERIOD,CL.CLIENT\_NAME,RM.ROOM\_NUMBER

FROM RESERVATION R

JOIN ROOM RM ON RM.ROOM\_ID=R.ROOM\_ID

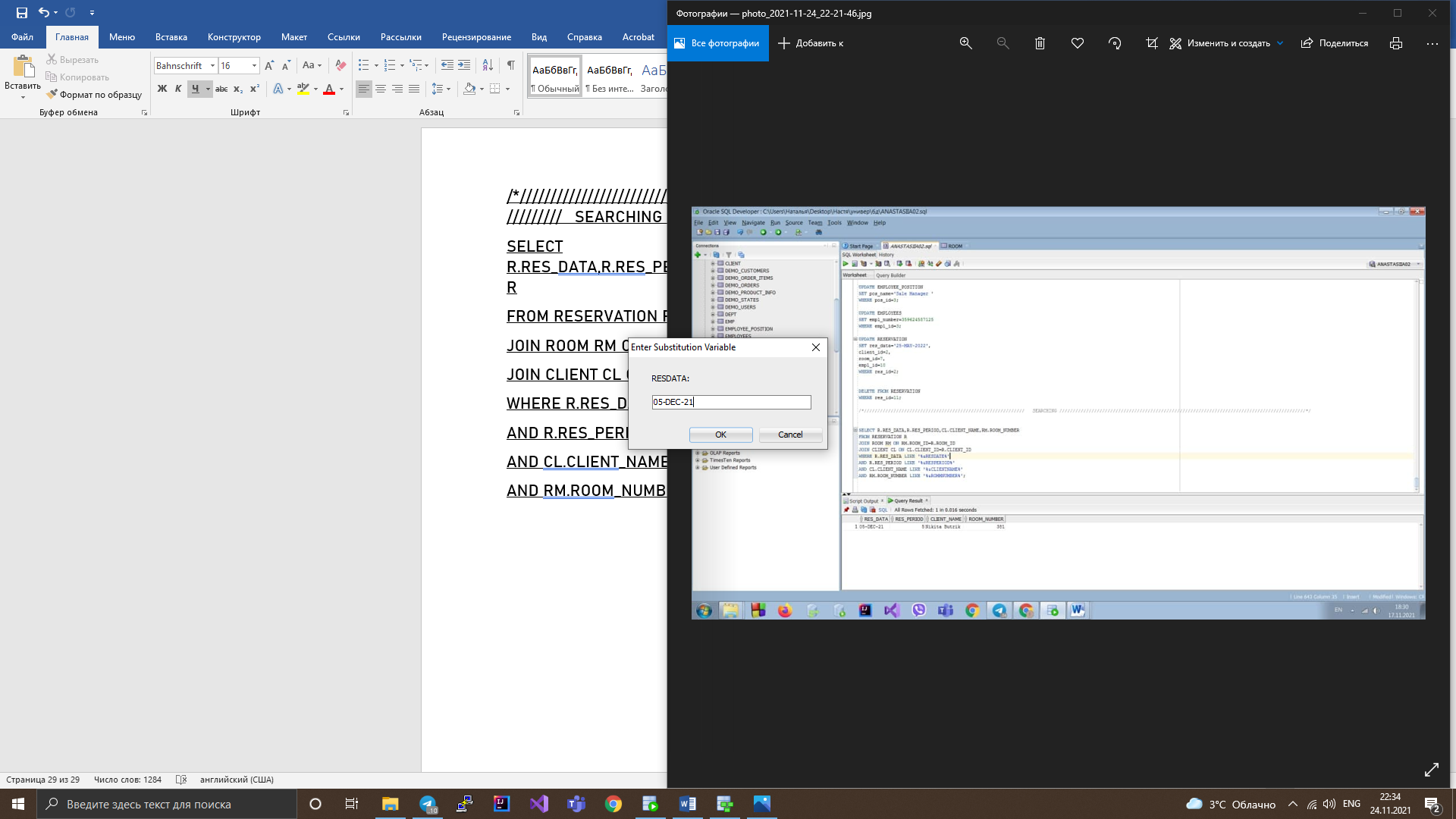
JOIN CLIENT CL ON CL.CLIENT\_ID=R.CLIENT\_ID

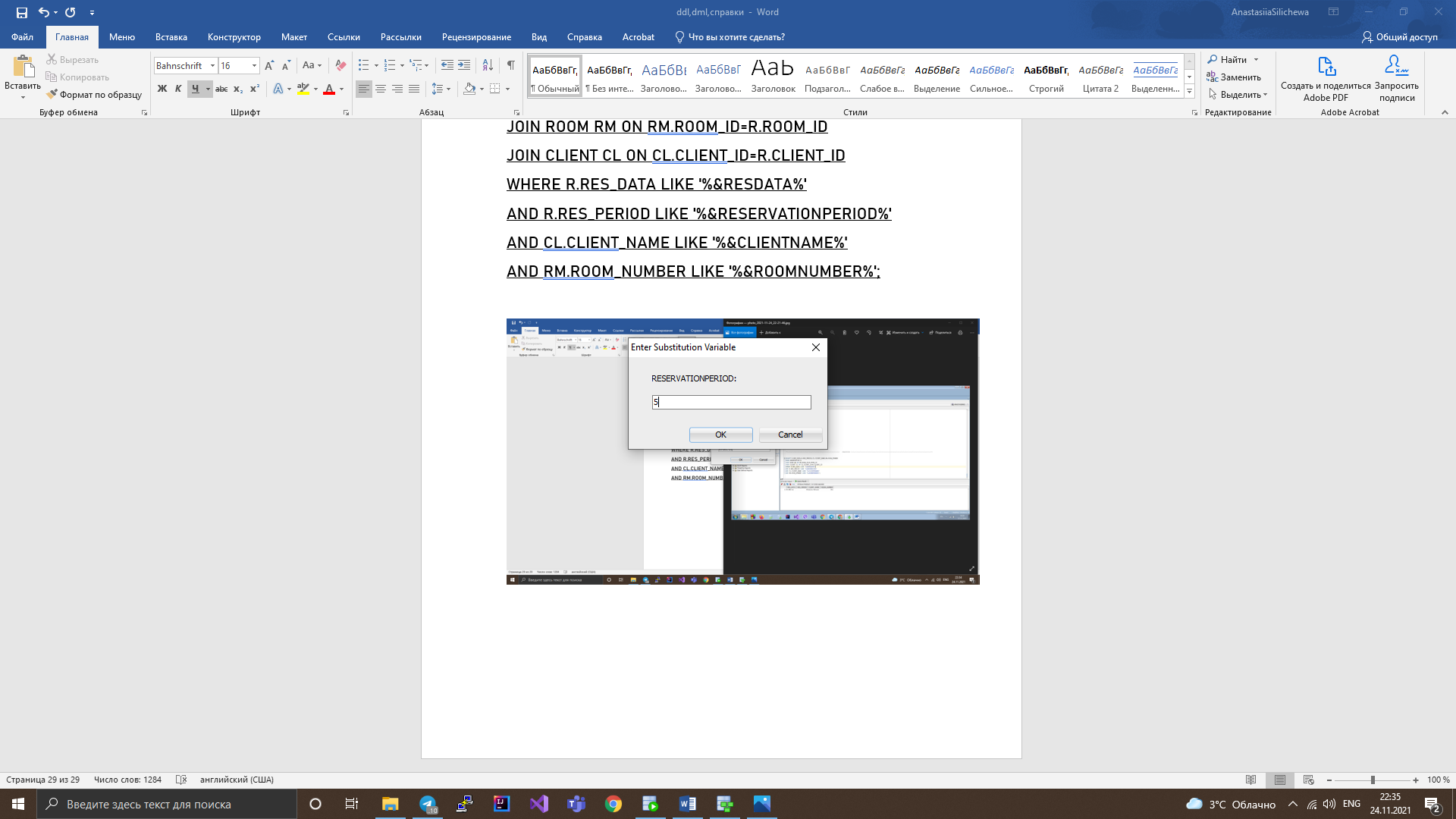
WHERE R.RES\_DATA LIKE '%&RESDATA%'

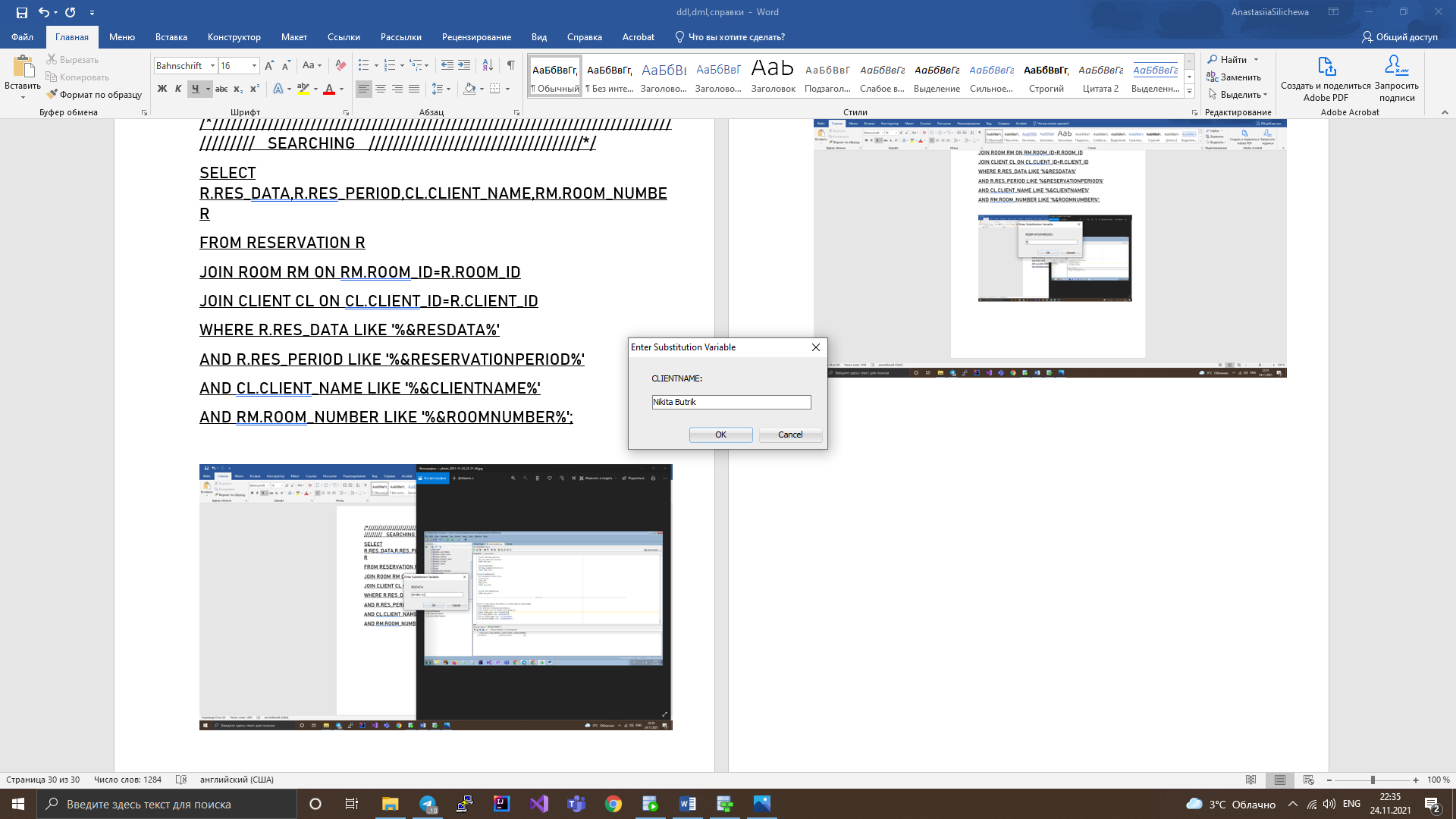
AND R.RES\_PERIOD LIKE '%&RESERVATIONPERIOD%'

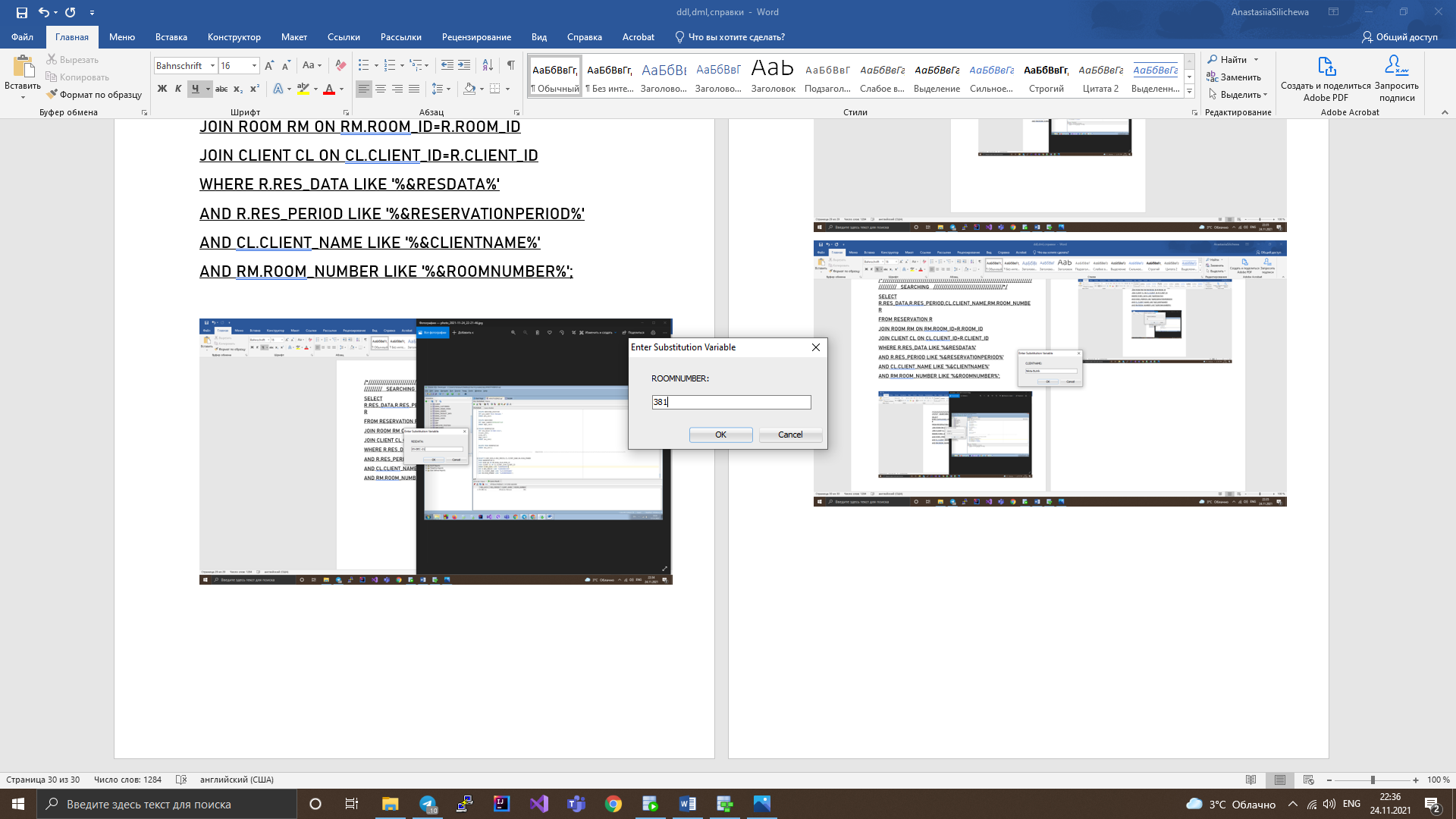
AND CL.CLIENT\_NAME LIKE '%&CLIENTNAME%'

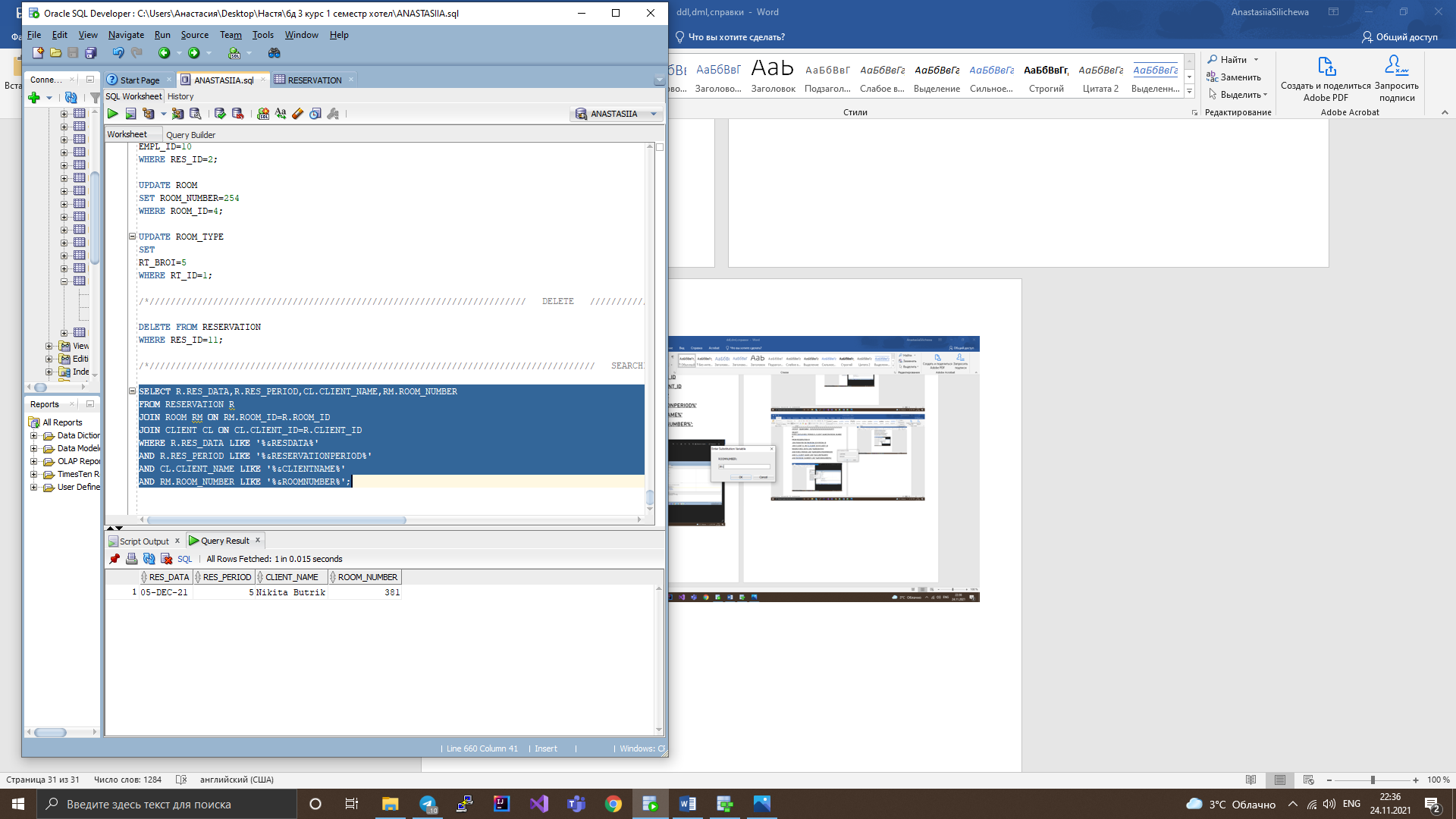
AND RM.ROOM\_NUMBER LIKE '%&ROOMNUMBER%';











/\*////////////////////////////////////////////////////////////////////////////// REQUESTS //////////////////////////////////////////////////////\*/

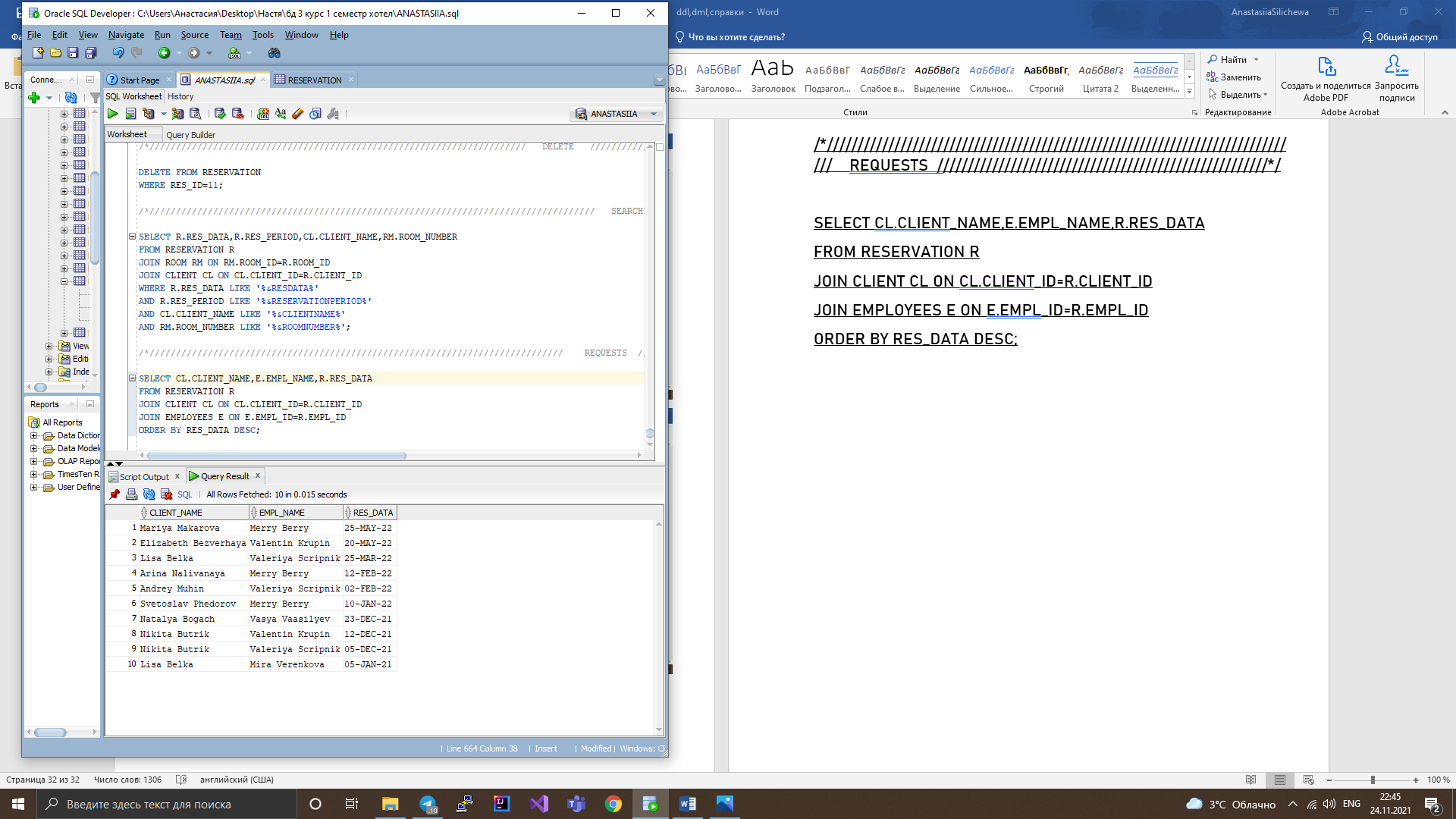
SELECT CL.CLIENT\_NAME,E.EMPL\_NAME,R.RES\_DATA

FROM RESERVATION R

JOIN CLIENT CL ON CL.CLIENT\_ID=R.CLIENT\_ID

JOIN EMPLOYEES E ON E.EMPL\_ID=R.EMPL\_ID

ORDER BY RES\_DATA DESC;



SELECT CL.CLIENT\_NAME,EM.EMPL\_NAME,R.RES\_DATA,R.RES\_PERIOD,RM.ROOM\_NUMBER

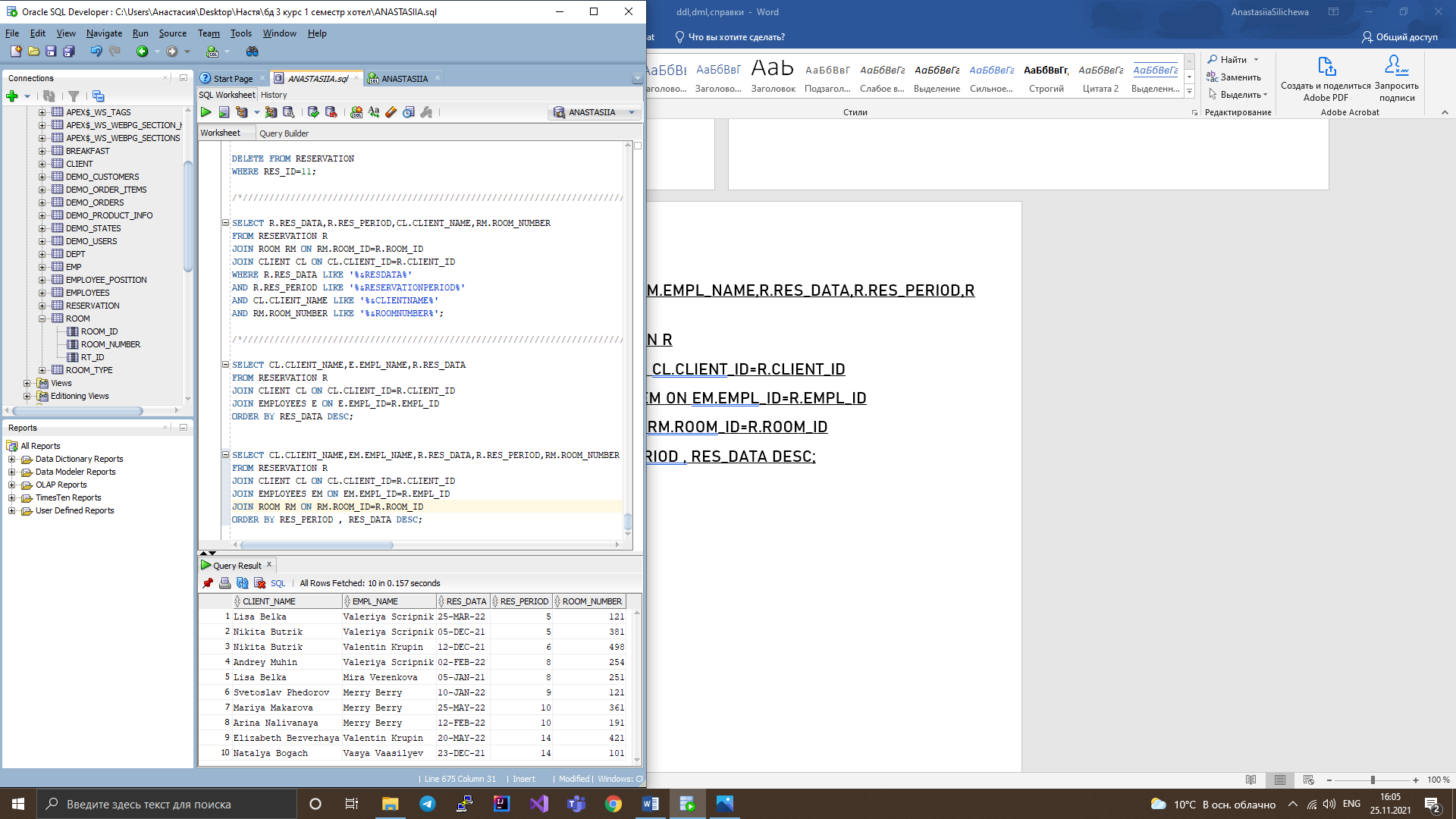
FROM RESERVATION R

JOIN CLIENT CL ON CL.CLIENT\_ID=R.CLIENT\_ID

JOIN EMPLOYEES EM ON EM.EMPL\_ID=R.EMPL\_ID

JOIN ROOM RM ON RM.ROOM\_ID=R.ROOM\_ID

ORDER BY RES\_PERIOD , RES\_DATA DESC;

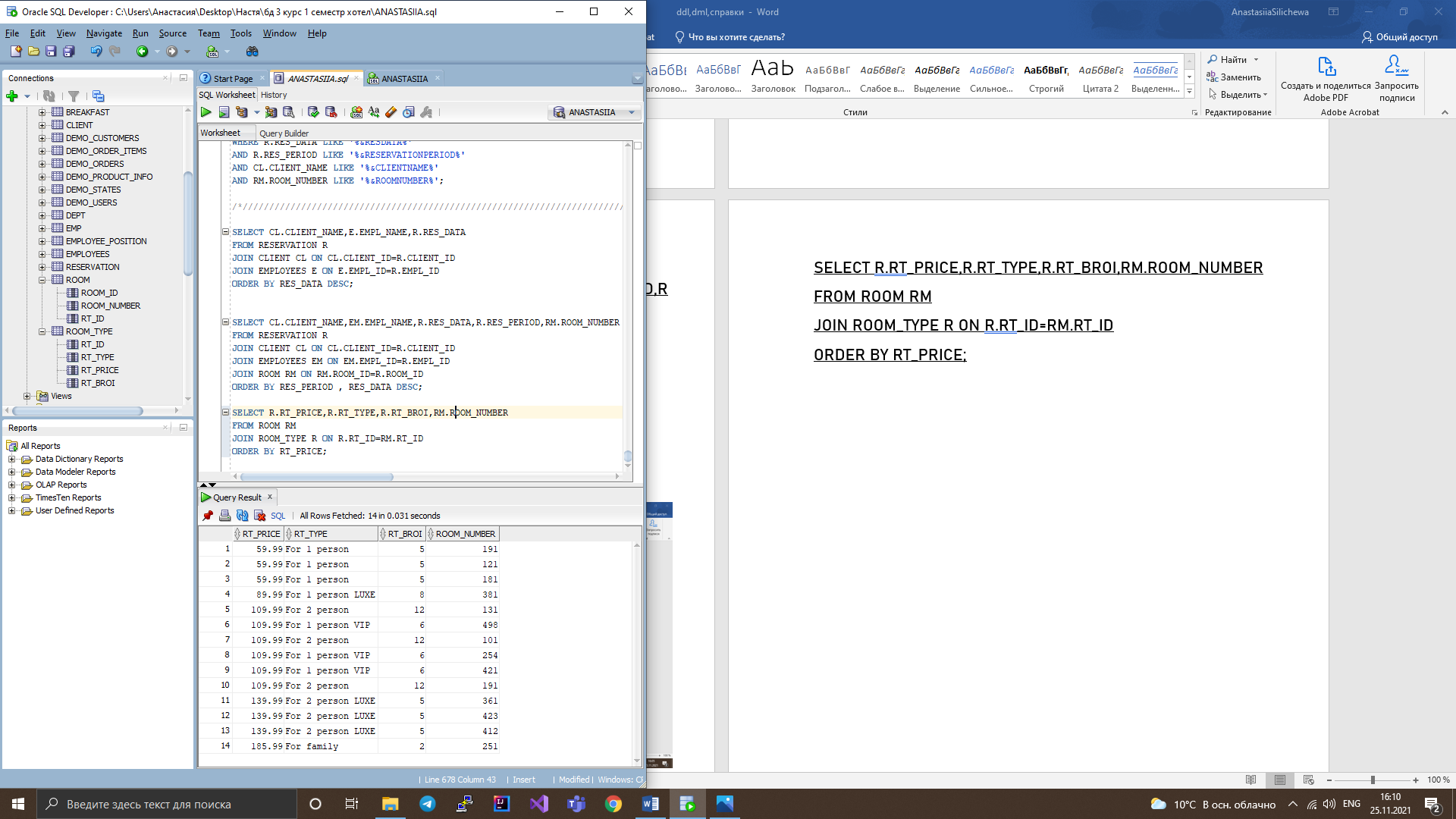


SELECT R.RT\_PRICE,R.RT\_TYPE,R.RT\_BROI,RM.ROOM\_NUMBER

FROM ROOM RM

JOIN ROOM\_TYPE R ON R.RT\_ID=RM.RT\_ID

ORDER BY RT\_PRICE;



/\*////////////////////////////////////////////////////////////////////// PROCEDURE //////////////////////////////////////////////////\*/

/\*/////////////////////////////////////////////////////////////////////// INSERT /////////////////////////////////////////////////////////\*/

create or replace procedure client\_insert

(

clientId client.client\_id%type,

clientName client.client\_name%type,

clientNumber client.client\_number%type,

clientGender client.client\_gender%type

)

as

begin

insert into client(client\_id,client\_name, client\_number,client\_gender)

values(clientId,clientName,clientNumber,clientGender);

commit;

end;

EXEC client\_insert(11,'Daniel Smirnov',359457862,'Male');

create or replace procedure employeePosition\_insert

(

posId employee\_position.pos\_id%type,

posName employee\_position.pos\_name%type

)

as

begin

insert into employee\_position(pos\_id,pos\_name)

values(posId,posName);

commit;

end;

EXEC employeePosition\_insert(12,'Ass Mid');

create or replace procedure rentType\_insert

(

-- rtId room\_type.rt\_id%type,

rtType room\_type.rt\_type%type,

rtPrice room\_type.rt\_price%type,

rtBroi room\_type.rt\_broi%type

)

as

begin

insert into room\_type(rt\_type,rt\_price,rt\_broi)

values( rtType,rtPrice,rtBroi);

commit;

end;

/\*/////////////////////////////////////////////////////// UPDATE ///////////////////////////////////////////////////////\*/

create or replace procedure updateEmployees

(

employeesId EMPLOYEES.EMPL\_ID%type,

positionFk employees.pos\_id%type

)

as

counter int :=0;

begin

select count(\*) into counter

from EMPLOYEES

where empl\_id = employeesId;

if counter > 0 then

Update employees

set pos\_id = positionFk

Where empl\_id = employeesId;

commit;

dbms\_output.put\_line('Updated Successfully');

else

dbms\_output.put\_line('There is no records in the table for update');

end if;

end;

EXEC updateEmployees(8,11);

/\*//////////////////////////////////////////////////////////////// DELETE ///////////////////////////////////////////\*/

CREATE OR REPLACE PROCEDURE roomDelete

(

roomId ROOM.ROOM\_ID%TYPE

)

AS

counter int:=0;

BEGIN

SELECT COUNT(\*) INTO counter

FROM ROOM

WHERE ROOM\_ID = roomId;

IF counter != 0 THEN

DELETE FROM ROOM WHERE ROOM\_ID = roomId;

DBMS\_OUTPUT.PUT\_LINE('Record is successfully deleted');

ELSE

DBMS\_OUTPUT.PUT\_LINE('Record does not found');

END IF;

END;

EXEC roomDelete(14);

/\*/////////////////////////////////////////////////////////////////// CURSOR TYPE /////////////////////////////////////////////////////////\*/

create or replace procedure rentPeriod

as

begin

for rent\_App IN (SELECT res\_data, res\_period FROM RESERVATION

where RESERVATION.res\_data between '05-JAN-2021' and '05-DEC-2021')

LOOP

DBMS\_OUTPUT.put\_line( rent\_App.res\_data||' '||rent\_App.res\_period);

END LOOP;

end;

/

SET SERVEROUTPUT ON;

EXEC rentPeriod();

/\*/////////////////////////////////////////////////////// TRIGGER /////////////////////////////////////////////////////////////////////\*/

create or replace trigger triggerClient

before insert on CLIENT

for each row

begin

if inserting then

if :NEW."CLIENT\_ID" is null then

select SEQUENCE1.nextval into :NEW."CLIENT\_ID" from dual;

end if;

end if;

end;

create or replace trigger triggerRoomType

before insert on ROOM\_TYPE

for each row

begin

if inserting then

if :NEW."RT\_ID" is null then

select SEQUENCE1.nextval into :NEW."RT\_ID" from dual;

end if;

end if;

end;

/\*////////////////////////////////////////////////////////////// INSERT WITH TRIGGER //////////////////////////////////////////////////////////////////////\*/

EXEC rentType\_insert('For family VIP',196.99,2);

create or replace PROCEDURE searchingRentByClientName

(

clName CLIENT.CLIENT\_NAME%TYPE

)

IS

BEGIN

DECLARE

CURSOR nameCl IS --name of the cursorSS

select RESERVATION.RES\_DATA,RESERVATION.RES\_PERIOD, CLIENT.CLIENT\_NAME

from RESERVATION

JOIN CLIENT on (RESERVATION.CLIENT\_ID = CLIENT.CLIENT\_ID)

where clName = CLIENT.CLIENT\_NAME;

BEGIN

FOR ClRecord IN nameCl -- priceRecord recordname

LOOP

DBMS\_OUTPUT.PUT\_LINE('Client:' || ClRecord.CLIENT\_NAME ||' Res date: '|| ClRecord.RES\_DATA ||' Res period: '|| ClRecord.RES\_PERIOD);

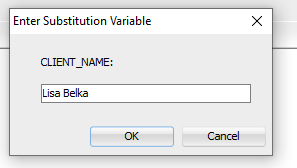
END LOOP;

END;

END;

SET SERVEROUTPUT ON;

EXEC searchingRentByClientName('&CLIENT\_NAME');





create or replace procedure rentPeriod

as

begin

for rent\_App IN (SELECT res\_data, res\_period FROM RESERVATION

where RESERVATION.res\_data between '05-JAN-2021' and '05-DEC-2021')

LOOP

DBMS\_OUTPUT.put\_line( rent\_App.res\_data||' '||rent\_App.res\_period);

END LOOP;

end;

/

SET SERVEROUTPUT ON;

EXEC rentPeriod();



create or replace PROCEDURE searchingRentByDate

(

resDate RESERVATION.RES\_DATA%TYPE

)

IS

BEGIN

DECLARE

CURSOR resDt IS --name of the cursorSS

select RESERVATION.RES\_DATA,RESERVATION.RES\_PERIOD, CLIENT.CLIENT\_NAME ,ROOM.ROOM\_NUMBER

from RESERVATION

JOIN CLIENT on (RESERVATION.CLIENT\_ID = CLIENT.CLIENT\_ID)

JOIN ROOM on (RESERVATION.ROOM\_ID = ROOM.ROOM\_ID)

where resDate = RESERVATION.RES\_DATA;

BEGIN

FOR resRecord IN resDt -- priceRecord recordname

LOOP

DBMS\_OUTPUT.PUT\_LINE('Client:' || resRecord.CLIENT\_NAME ||' Res date: '|| resRecord.RES\_DATA ||' Res period: '|| resRecord.RES\_PERIOD||' Room number: '|| resRecord.ROOM\_NUMBER);

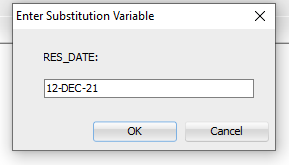
END LOOP;

END;

END;

SET SERVEROUTPUT ON;

EXEC searchingRentByDate('&RES\_DATE');





create or replace PROCEDURE searchingRentByPeriod

(

resPeriod RESERVATION.RES\_PERIOD%TYPE

)

IS

BEGIN

DECLARE

CURSOR resPr IS --name of the cursorSS

select RESERVATION.RES\_DATA,RESERVATION.RES\_PERIOD, CLIENT.CLIENT\_NAME ,ROOM.ROOM\_NUMBER,EMPLOYEES.EMPL\_NAME

from RESERVATION

JOIN CLIENT on (RESERVATION.CLIENT\_ID = CLIENT.CLIENT\_ID)

JOIN ROOM on (RESERVATION.ROOM\_ID = ROOM.ROOM\_ID)

JOIN EMPLOYEES on (RESERVATION.EMPL\_ID = EMPLOYEES.EMPL\_ID)

where resPeriod = RESERVATION.RES\_PERIOD;

BEGIN

FOR resPerRecord IN resPr-- priceRecord recordname

LOOP

DBMS\_OUTPUT.PUT\_LINE('Client:' || resPerRecord.CLIENT\_NAME ||' Res date: '|| resPerRecord.RES\_DATA ||' Res period: '|| resPerRecord.RES\_PERIOD||' Room number: '|| resPerRecord.ROOM\_NUMBER||' Employee name: '|| resPerRecord.EMPL\_NAME);

END LOOP;

END;

END;

SET SERVEROUTPUT ON;

EXEC searchingRentByPeriod('&RES\_PERIOD');

