

ACADEMIA DE STUDII ECONOMICE BUCUREŞTI
FACULTATEA DE CIBERNETICĂ, STATISTICĂ ȘI INFORMATICĂ
ECONOMICĂ

PROIECT BAZE DE DATE
BAZĂ DE DATE PENTRU UN LANT DE FRIZERII

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Studentii vor proiecta si implementa o baza de date in domeniul economic, utilizand limbajul SQL.

CERINTE PROIECT ORACLE

1. Definirea schemei bazei de date – tabele, restrictii de integritate. Se utilizeaza comenzi CREATE, ALTER, DROP.
2. Exemple cu operatiile de actualizare a datelor (comenzi DML – INSERT, UPDATE, DELETE, MERGE (optional) pentru inregistrari).
3. Exemple de interogari variate (SELECT):
 - Utilizarea operatorilor de comparatie
 - Join-uri
 - Utilizarea functiilor de grup si conditii asupra acestora
 - Utilizarea functiilor numerice, de tip caracter, pentru data si timp
 - Construirea de expresii cu DECODE si CASE
 - Utilizarea operatorilor UNION, MINUS, INTERSECT
 - Subcereri (cereri imbicate)
4. Gestiunea altor obiecte ale bazei de date: vederi, indecsi, sinonime, sevante etc.

CERINTE PRIVIND REDACTAREA SI SUSTINEREA PROIECTULUI

Proiectele individuale vor fi salvate ca fisiere pdf si incarcate pe platforma online.ase.ro si vor contine:

- cerintele proiectului,
- comenzi SQL aferente cerintelor,
- print screen-uri pentru vizualizarea rezultatelor – **se va include numele utilizatorului (numele utilizatorului va fi vizibil).**

Fiecare seventa de comenzi va fi insotita de enuntul problemei (a se vedea exemplele de la seminar).

Se puncteaza cu punctaj intreg daca sunt respectate cerintele de mai sus:

1. Descrierea bazei de date: obiectivul proiectului, descrierea tabelelor si a atributelor, precizarea restrictiilor si a tipurilor de legaturi (max. ½ pag.). BD trebuie sa fie normalizata cel putin in FN3. (1p)

Baza de date creată servește unui lanț de frizerii. În cadrul schemei entity-relation putem observa tabelele Locatii_1, Frizeri, Rezervari, Clienti_1 și Recenzii.

Tabelul Locatii_1 are 4 câmpuri: ID_Locatie, care este cheia primară a tabelului, prin intermediul căreia identificăm o locație și care este un număr întreg format din maximum 2 cifre, Strada, care reprezintă strada pe care se află frizeria și care este un varchar2 de lungime maximă de 20 de caractere, Cod_Postal, care reprezintă codul poștal al locației și este un char cu lungime invariabilă de 6 caractere, Nr_Frizeri care reprezintă numărul de frizeri ce lucrează în locația respectivă și care este un număr întreg format din maximum 2 cifre.

Tabelul Frizeri are 6 câmpuri: ID_Frizer, care este cheia primară a tabelului, prin intermediul căreia identificăm un frizer și care este un număr întreg format din maximum

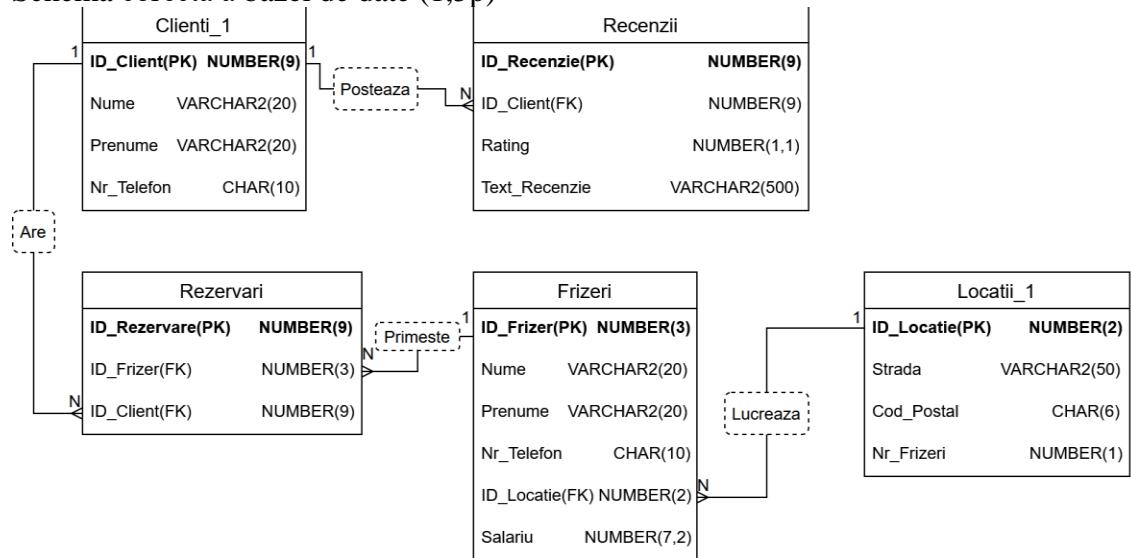
3 cifre, Nume, care reprezintă numele unui frizer și care este un varchar2 de lungime maximă de 20 de caractere, Prenume, care reprezintă prenumele unui frizer și care este un varchar2 de lungime maximă de 20 de caractere, Nr_Telefon, care reprezintă numărul de telefon al unui frizer și care este un char cu lungime invariabilă de 10 caractere, ID_Locatie, care este cheie externă și reprezintă ID-ul locației în care lucrează frizerul și care este un număr întreg format din maximum 2 cifre, Salariu, care reprezintă salariul unui frizer și care este număr real cu lungime maximă de 7 cifre și o lungime maximă a părții fracționare de 2 zecimale.

Tabelul Rezervari are 3 câmpuri: ID_Rezervare, care este cheia primară a tabelului, prin intermediul căreia identificăm o rezervare și care este un număr întreg format din maximum 9 cifre, ID_Frizer, care este cheie externă și reprezintă ID-ul frizerului care se va ocupa de rezervare, ID_Client, care este cheie externă și reprezintă ID-ul clientului care are rezervarea.

Tabelul Clienti_1 are 4 câmpuri: ID_Client, care este cheia primară a tabelului, prin intermediul căreia identificăm un client și care este un număr întreg format din maximum 9 cifre, Nume, care reprezintă numele unui client și care este un varchar2 de lungime maximă de 20 de caractere, Prenume, care reprezintă prenumele unui client și care este un varchar2 de lungime maximă de 20 de caractere, Nr_Telefon, care reprezintă numărul de telefon al unui client și este un char de lungime fixă de 10 caractere.

Tabelul Recenzii are 4 câmpuri: ID_Recenzie, care este cheia primară a tabelului, prin intermediul căreia identificăm o recenzie și care este un număr întreg format din maximum 9 cifre, ID_Client, care este cheie externă și reprezintă ID-ul clientului care a lăsat recenzie, Rating, care reprezintă nota, cuprinsă între 0 și 5, dată de client serviciului de care a beneficiat și care este un număr real cu lungime maxima de 2 cifre și o lungime maximă a părții fracționare de o cifră, Text_Recenzie, care reprezintă comentariul atașat recenziei și care este un varchar2 cu lungime de maximum 500 de caractere.

2. Schema corectă a bazei de date (1,5p)



3. Crearea tabelelor (min. 4 tabele) (1p)

The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the database structure under 'Tables (Filtered)' for connection 'BD'. The central 'Worksheet' pane contains the SQL code for creating the 'locatii_1' table:

```
--Gogosca Petre-Cristian, 1053D
create table locatii_1(
    id_locatie number(2) not null primary key,
    strada varchar2(50) not null,
    cod_postal char(6) not null,
    nr_frizeri number(1) not null
);
```

The 'Script Output' pane at the bottom shows the execution results:

```
id_locatie number(2) not null primary key,
strada varchar2(50) not null,
cod_postal char(6) not null,
nr_frizeri number(1) not null
)
Error report -
ORA-00955: name is already used by an existing object
00955. 00000 - "name is already used by an existing object"
*Cause:
*Action:
```

The message indicates that the table 'locatii_1' was created successfully.

```
create table locatii_1(
    id_locatie number(2) not null primary key,
    strada varchar2(50) not null,
    cod_postal char(6) not null,
    nr_frizeri number(1) not null
);
```

The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the database structure under 'Tables (Filtered)' for connection 'BD'. The central 'Worksheet' pane contains the SQL code for creating the 'frizeri' table:

```
--Gogosca Petre-Cristian, 1053D
create table frizeri(
    id_frizer number(3) not null primary key,
    nume varchar2(20) not null,
    prenume varchar2(20) not null,
    nr_telefon char(10) not null,
    id_locatie number(2),
    salariu number(7,2),
    CONSTRAINT fk_id_locatie FOREIGN KEY (id_locatie) REFERENCES locatii_1(id_locatie)
);
```

The 'Script Output' pane at the bottom shows the execution results:

```
nr_frizeri number(1) not null
)
Error report -
ORA-00955: name is already used by an existing object
00955. 00000 - "name is already used by an existing object"
*Cause:
*Action:
```

The message indicates that the table 'frizeri' was created successfully.

```
create table frizeri(
    id_frizer number(3) not null primary key,
    nume varchar2(20) not null,
```

```

prenume varchar2(20) not null,
nr_telefon char(10) not null,
id_locatie number(2),
salariu number(7,2),
CONSTRAINT fk_id_locatie FOREIGN KEY (id_locatie) REFERENCES
locatii_1(id_locatie)
);

```

The screenshot shows the Oracle SQL Developer interface. The left pane displays the database schema with various tables like AGENTI_PAZA, ANGAJATI, CLIENTI, COMENZI, CONTRACT, DEP, DEP2, DEPARTAMENTE, FIRME, FUNCTII, HARDWARE, LOCATII, and SALARIATI. The right pane contains a 'Worksheet' tab where the following SQL code is written:

```

--Gogașa Petre-Cristian, 10530
create table clienti_1(
    id_client number(8) not null primary key,
    nume varchar2(20) not null,
    prenume varchar2(20) not null,
    nr_telefon char(10) not null
);

```

Below the code, the 'Script Output' window shows the execution results:

```

Task completed in 0.088 seconds
id_client number(8) not null primary key,
nume varchar2(20) not null,
prenume varchar2(20) not null,
nr_telefon char(10) not null
)
Error report -
ORA-00955: name is already used by an existing object
00955. 00000 - "name is already used by an existing object"
*Cause:
*Action:
Table CLIENTI_1 created.

```

The status bar at the bottom indicates the task was completed in 0.088 seconds, and the table CLIENTI_1 was created.

```

create table clienti_1(
    id_client number(8) not null primary key,
    nume varchar2(20) not null,
    prenume varchar2(20) not null,
    nr_telefon char(10) not null
);

```

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar on the left lists a connection named 'BD'. The 'Worksheet' tab in the center contains the following SQL code:

```
--Gogoașă Petre-Cristian, 1053D
create table rezervari(
    id_rezervare number(8) not null primary key,
    id_frizer number(3),
    id_client number(8),
    constraint fk_id_client_rezervari foreign key (id_client) references clienti_1(id_client),
    constraint fk_id_frizer foreign key (id_frizer) references frizeri(id_frizer)
);
```

The 'Script Output' window at the bottom shows the results of the execution:

- Task completed in 0.08 seconds
- Error report - ORA-00955: name is already used by an existing object 00955. 00000 - "name is already used by an existing object"
- *Cause:
- *Action:

The output also indicates that the tables 'CLIENTI_1' and 'REZERVARI' were created.

```
create table recenzii(
    id_recenzie number(8) not null primary key,
    id_client number(8),
    rating number(1,1) not null,
    text_recenzie varchar2(500),
    constraint fk_id_client_recenzii foreign key (id_client) references clienti_1(id_client)
);
```

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar on the left lists a connection named 'BD'. The 'Worksheet' tab in the center contains the same SQL code as the previous screenshot:

```
--Gogoașă Petre-Cristian, 1053D
create table rezervari(
    id_rezervare number(8) not null primary key,
    id_frizer number(3),
    id_client number(8),
    constraint fk_id_client_rezervari foreign key (id_client) references clienti_1(id_client),
    constraint fk_id_frizer foreign key (id_frizer) references frizeri(id_frizer)
);
```

The 'Script Output' window at the bottom shows the results of the execution:

- Task completed in 0.08 seconds
- Error report - ORA-00955: name is already used by an existing object 00955. 00000 - "name is already used by an existing object"
- *Cause:
- *Action:

The output also indicates that the tables 'CLIENTI_1' and 'REZERVARI' were created.

```
create table rezervari(
    id_rezervare number(8) not null primary key,
```

```

id_frizer number(3),
id_client number(8),
constraint fk_id_client_rezervari foreign key (id_client) references
clienti_1(id_client),
constraint fk_id_frizer foreign key (id_frizer) references frizeri(id_frizer)
);

```

4. Actualizarea structurii tabelelor si modificarea restrictiilor de integritate (1p)

The screenshot shows the Oracle SQL Developer interface. In the 'Connections' pane, a connection named 'BD' is selected. In the 'Tables (Filtered)' section, several tables are listed, including AGENTI_PAZA, ANG2, ANGAJATI, CLIENT, CLIENT_1, COMENZI, CONTRACT, DEP, DEP2, DEPARTAMENTE, FIRME, FRIZERI, FUNCTII, HARDWARE, ISTORIC_PUNCTII, LOCATII, LOCATII_1, Oamenii_SALARIATI, PRODUCERE, RAND_COMENZI, RECENTII, REGULINE, REZERVARI, SALARIAVI, SALARIAVI_1, SALARIAVI_2, TARI, Views, Indexes, and Packager. In the 'Worksheet' tab, the following SQL code is entered:

```
--Gogașa Petre-Cristian, 10530
alter table recenzii
modify rating number(2,1);
```

The 'Script Output' window shows the result of the execution:

```
Table RECENZII altered.
```

`alter table recenzii
modify rating number(2,1);`

This screenshot shows the same Oracle SQL Developer environment. The 'Connections' pane is still connected to 'BD'. In the 'Worksheet' tab, the previous SQL command has been run, and now a new command is being entered:

```
--Gogașa Petre-Cristian, 10530
alter table recenzii
modify rating number(2,1);

alter table recenzii
add constraint
check_value
CHECK(rating between 0 and 5);
```

The 'Script Output' window shows the results of the two alter table commands:

```
Table RECENZII altered.
Table RECENZII altered.
```

```

alter table recenzi
add constraint
    check_value
        CHECK(rating between 0 and 5);

```

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar shows a connection to 'BD'. The 'Tables (Filtered)' section lists various tables like AGENTI_PAZA, ANG2, ANGAJATI, CLIENT, CLIENT_1, COMENZI, CONTRACT, DEP, DEP2, DEPARTAMENTE, FIRME, FRIZIERI, HARDWARE, ISTORIC_PUNCTII, LOCATII, LOCATII_1, CAMERE_SALARIAȚI, PROCUSE, RAND_COMENZI, SALARIATI, SALARIATI_1, SALARIATI_2, TARII, VIEWS, and INDEXES. The 'Reports' section shows 'All Reports'. The 'Worksheet' tab contains the following SQL code:

```

--Gogosă Petre-Cristian, 1053D

alter table recenzi
modify rating number(2,1);

alter table recenzi
add constraint
    check_value
        CHECK(rating between 0 and 5);

alter table locatii_1
add constraint
    check_nr_frizeri_valid
        CHECK(nr_frizeri >= 0);

```

The 'Script Output' window shows the results of the execution:

```

Table RECENZII altered.

Table RECENZII altered.

Table LOCATII_1 altered.

```

The status bar at the bottom right indicates: Line 15 Column 28 | Insert | Modified | Windows: 0 | 13°C Sunny | ENG UK | 2:20 PM | 1/6/2023.

```

alter table locatii_1
add constraint check_nr_frizeri_valid
    CHECK(nr_frizeri >= 0);

```

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar shows a connection to 'BD'. The 'Tables (Filtered)' section lists various tables. The 'Worksheet' tab contains the following SQL code:

```

alter table locatii_1
add constraint
    check_nr_frizeri_valid
        CHECK(nr_frizeri >= 0);

--Gogosă Petre-Cristian, 1053D

alter table frizeri
add constraint
    check_salariu_minim
        CHECK(salariu >= 2550);

```

The 'Script Output' window shows the results of the execution:

```

Table RECENZII altered.

Table LOCATII_1 altered.

Table FRIZERI altered.

```

The status bar at the bottom right indicates: Line 22 Column 28 | Insert | Modified | Windows: 0 | 13°C Sunny | ENG UK | 2:22 PM | 1/6/2023.

```

alter table frizeri
add constraint
    check_salariu_minim
        CHECK(salariu >= 2550);

```

The screenshot shows the Oracle SQL Developer interface. The Connections tree on the left shows a connection named 'BD' with various schema objects like Tables, Views, and Procedures. The Worksheet pane contains the following SQL code:

```
alter table locatii_1
add constraint
check_nr_frizeri_valid
CHECK(nr_frizeri >= 0);

--Gogosca Petre-Cristian, 10530

alter table frizeri
add constraint
check_salariu_minim
CHECK(salariu >= 2550);

alter table recenzii
add constraint
check_text_notnull
CHECK(text_recenzie is not null);
```

The Script Output pane shows the results of the execution:

```
Task completed in 0.068 seconds
CHECK(text_recenzie not null)
Error report -
ORA-00920: 00000 - "invalid relational operator"
00920. 00000 - "invalid relational operator"
*Cause:
*Action:
Table RECENZII altered.
```

```
alter table recenzii
add constraint
check_text_notnull
CHECK(text_recenzie is not null);
```

The screenshot shows the Oracle SQL Developer interface. The Connections tree on the left shows a connection named 'BD' with various schema objects like Tables, Views, and Procedures. The Worksheet pane contains the following SQL code:

```
alter table locatii_1
add constraint
check_nr_frizeri_valid
CHECK(nr_frizeri >= 0);

--Gogosca Petre-Cristian, 10530

alter table frizeri
add constraint
check_salariu_minim
CHECK(salariu >= 2550);

alter table recenzii
add constraint
check_text_notnull
CHECK(text_recenzie is not null);

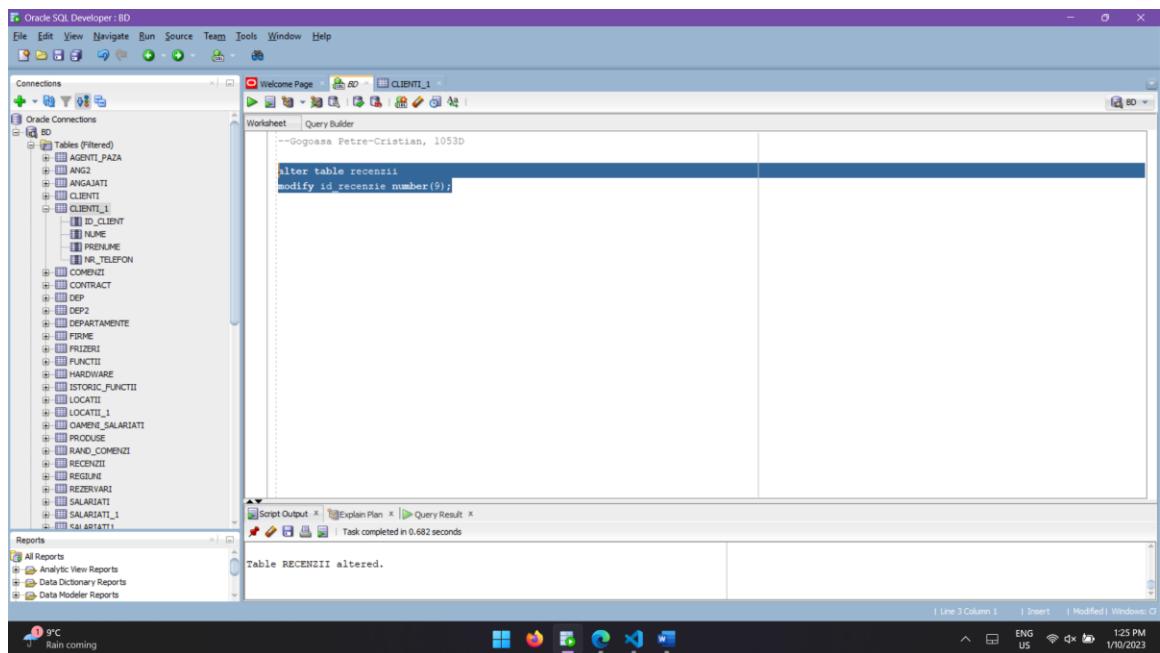
alter table recenzii
disable constraint check_text_notnull;
```

The Script Output pane shows the results of the execution:

```
Task completed in 0.07 seconds
00920. 00000 - "invalid relational operator"
*Cause:
*Action:
Table RECENZII altered.

Table RECENZII altered.
```

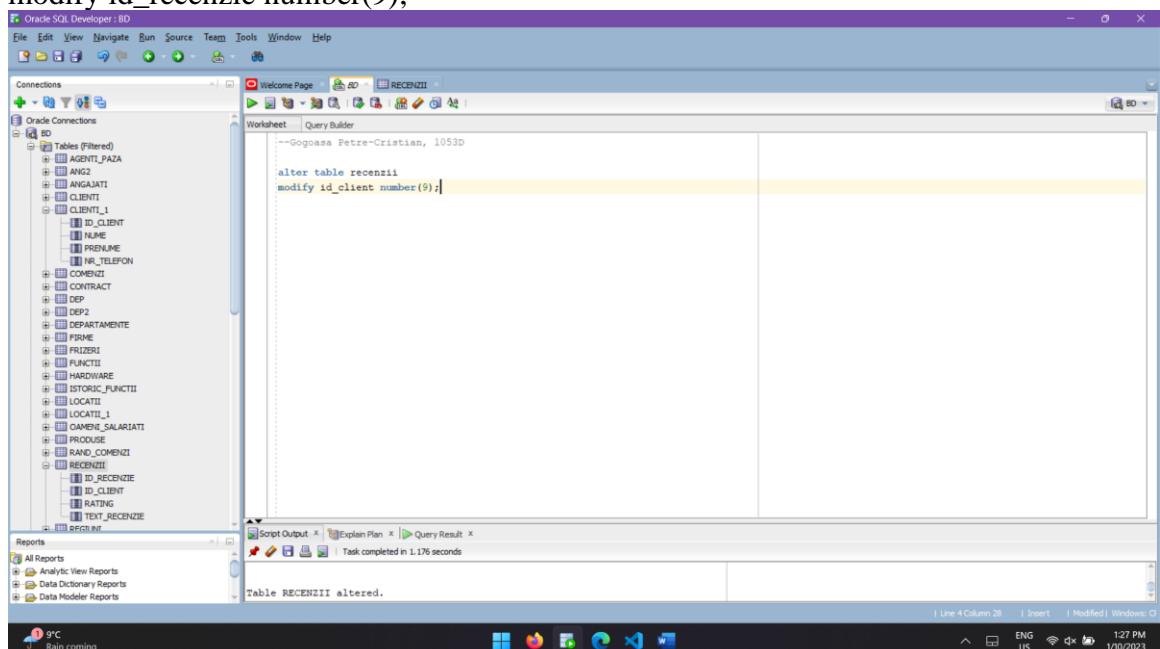
```
alter table recenzii
disable constraint check_text_notnull;
```



```
--Gogosaa Petre-Cristian, 1053D
alter table recenzii
modify id_recenzie number(9);
```

Table RECENZII altered.

alter table recenzii
modify id_recenzie number(9);



```
--Gogosaa Petre-Cristian, 1053D
alter table recenzii
modify id_client number(9);
```

Table RECENZII altered.

alter table recenzii
modify id_client number(9);

Oracle SQL Developer : BD

File Edit View Navigate Run Source Team Tools Window Help

Connections

Oracle Connections

BD

Tables (Filtered)

- AGENT_PAZA
- ANG2
- ANG3
- ANG4
- ANG5
- ANG6
- ANG7
- ANG8
- ANG9
- ANG10
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Table CLIENTI_1 altered.

Oracle SQL Developer : BD

File Edit View Navigate Run Source Team Tools Window Help

Connections

Oracle Connections

BD

Tables (Filtered)

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- ANG428

The screenshot shows the Oracle SQL Developer interface. The left pane displays the 'Connections' tree, with 'BD' selected, showing various tables like ANGAZATI, CLIENT, and REZERVARI. The right pane contains a 'Worksheet' tab with the following code:

```
--Gogoașa Petre-Cristian, 1053D
alter table rezervari
modify id_rezervare number(9);
```

Below the worksheet, the 'Script Output' tab shows the result: 'Table REZERVARI altered.'

alter table rezervari
modify id_rezervare number(9);

5. Adăugarea (min 10, max 15) de înregistrări în fiecare tabelă (1p)

The screenshot shows the Oracle SQL Developer interface. The left pane displays the 'Connections' tree, with 'BD' selected, showing various objects like Tables, Views, and Procedures. The right pane contains a 'Worksheet' tab with the following code:

```
--Gogoașa Petre-Cristian, 1053D
INSERT INTO locatii_1 VALUES ('01','panterei','051043',2);
INSERT INTO locatii_1 VALUES ('02','dorobanti','013405',1);
INSERT INTO locatii_1 VALUES ('03','victoriei','013456',1);
INSERT INTO locatii_1 VALUES ('04','londra','016346',2);
INSERT INTO locatii_1 VALUES ('05','paris','016344',2);
INSERT INTO locatii_1 VALUES ('06','polone','013459',1);
INSERT INTO locatii_1 VALUES ('07','nicolae grigorescu','037321',1);
INSERT INTO locatii_1 VALUES ('08','margineanului','057541',1);
INSERT INTO locatii_1 VALUES ('09','petru ăsprescu','053278',2);
INSERT INTO locatii_1 VALUES ('10','stefan cel mare','027324',1);
INSERT INTO locatii_1 VALUES ('11','i.c. bratianu','035687',1);
```

Below the worksheet, the 'Script Output' tab shows three rows of results: '1 row inserted.', '1 row inserted.', and '1 row inserted.'

INSERT INTO locatii_1 VALUES ('01','panterei','051043',2);
INSERT INTO locatii_1 VALUES ('02','dorobanti','013405',1);
INSERT INTO locatii_1 VALUES ('03','victoriei','013456',1);
INSERT INTO locatii_1 VALUES ('04','londra','016346',2);
INSERT INTO locatii_1 VALUES ('05','paris','016344',2);

```

INSERT INTO locatii_1 VALUES ('06','polona','013459',1);
INSERT INTO locatii_1 VALUES ('07','nicolae grigorescu','037321',1);
INSERT INTO locatii_1 VALUES ('08','margeanului','057541',1);
INSERT INTO locatii_1 VALUES ('09','petre ispirescu','053278',2);
INSERT INTO locatii_1 VALUES ('10','stefan cel mare','027324',1);
INSERT INTO locatii_1 VALUES ('11','i.c. bratianu','035687',1);

```

The screenshot shows the Oracle SQL Developer interface. The 'Connections' tree on the left lists 'B0'. The 'Worksheet' tab in the center displays a query script for inserting data into the 'frizeri' table. The script includes a header and twelve 'VALUES' statements. Below the worksheet, the 'Script Output' tab shows three rows of output: '1 row inserted.' repeated three times. The status bar at the bottom right indicates 'Task completed in 1.614 seconds'.

```

--Gogoașă Petre-Cristian, 10530

INSERT INTO frizeri VALUES (1,'Beck','Branch','0778646796',9,4315);
INSERT INTO frizeri VALUES (2,'Kaseem','Carroll','0747691316',7,3404);
INSERT INTO frizeri VALUES (3,'Reuben','Conrad','0745379156',6,3530);
INSERT INTO frizeri VALUES (4,'Damian','Richards','0761753236',11,3735);
INSERT INTO frizeri VALUES (5,'Brent','Cooper','0714213916',11,4380);
INSERT INTO frizeri VALUES (6,'Quinn','Serrano','0737823614',9,4070);
INSERT INTO frizeri VALUES (7,'Allen','Medina','0718463731',6,4971);
INSERT INTO frizeri VALUES (8,'Samuel','Wong','0701552386',2,4919);
INSERT INTO frizeri VALUES (9,'Gareth','Schneider','0738824186',2,4872);
INSERT INTO frizeri VALUES (10,'Ashton','Huber','0786307342',7,3176);
INSERT INTO frizeri VALUES (11,'Fuller','Ramos','0726611188',6,4137);

```

```

INSERT INTO frizeri VALUES (1,'Beck','Branch','0778646796',9,4315);
INSERT INTO frizeri VALUES (2,'Kaseem','Carroll','0747691316',7,3404);
INSERT INTO frizeri VALUES (3,'Reuben','Conrad','0745379156',6,3530);
INSERT INTO frizeri VALUES (4,'Damian','Richards','0761753236',11,3735);
INSERT INTO frizeri VALUES (5,'Brent','Cooper','0714213916',11,4380);
INSERT INTO frizeri VALUES (6,'Quinn','Serrano','0737823614',9,4070);
INSERT INTO frizeri VALUES (7,'Allen','Medina','0718463731',6,4971);
INSERT INTO frizeri VALUES (8,'Samuel','Wong','0701552386',2,4919);
INSERT INTO frizeri VALUES (9,'Gareth','Schneider','0738824186',2,4872);
INSERT INTO frizeri VALUES (10,'Ashton','Huber','0786307342',7,3176);
INSERT INTO frizeri VALUES (11,'Fuller','Ramos','0726611188',6,4137);

```

The screenshot shows the Oracle SQL Developer interface. The left sidebar displays a tree view of database objects under the connection 'BD'. The 'Tables (Filtered)' section contains several tables such as 'CLIENTI', 'LOCATII_1', 'SALARIATI_1', and 'STORIC_PUNCTII'. The main workspace is titled 'Welcome Page' and shows a 'Query Builder' window with the following SQL code:

```
--Gogosaa Petre-Cristian, 1053D
INSERT INTO clienti_1 VALUES (765881964,'Huber','Rafael','0713314974');
INSERT INTO clienti_1 VALUES (100127169,'Simmons','Eric','0707998488');
INSERT INTO clienti_1 VALUES (553988281,'Coffey','Arsenio','0758669896');
INSERT INTO clienti_1 VALUES (279310546,'Riddle','Branden','0787889065');
INSERT INTO clienti_1 VALUES (248393989,'Yates','Camden','0708547834');
INSERT INTO clienti_1 VALUES (450693375,'Spencer','George','0751037688');
INSERT INTO clienti_1 VALUES (950682623,'Bray','Martin','0767185563');
INSERT INTO clienti_1 VALUES (218112321,'Mendoza','Keefe','0783794173');
INSERT INTO clienti_1 VALUES (963003555,'Porter','Channing','0708690480');
INSERT INTO clienti_1 VALUES (278784246,'Brennan','George','0760476425');
INSERT INTO clienti_1 VALUES (111297696,'Chaney','Nigel','0781168044');
```

The status bar at the bottom indicates 'Task completed in 0.786 seconds'.

INSERT INTO clienti_1 VALUES (765881964,'Huber','Rafael','0713314974);
 INSERT INTO clienti_1 VALUES (100127169,'Simmons','Eric','0707998488');
 INSERT INTO clienti_1 VALUES (553988281,'Coffey','Arsenio','0758669896');
 INSERT INTO clienti_1 VALUES (279310546,'Riddle','Branden','0787889065');
 INSERT INTO clienti_1 VALUES (248393989,'Yates','Camden','0708547834');
 INSERT INTO clienti_1 VALUES (450693375,'Spencer','George','0751037688');
 INSERT INTO clienti_1 VALUES (950682623,'Bray','Martin','0767185563');
 INSERT INTO clienti_1 VALUES (218112321,'Mendoza','Keefe','0783794173');
 INSERT INTO clienti_1 VALUES (963003555,'Porter','Channing','0708690480');
 INSERT INTO clienti_1 VALUES (278784246,'Brennan','George','0760476425');
 INSERT INTO clienti_1 VALUES (111297696,'Chaney','Nigel','0781168044');

The screenshot shows the Oracle SQL Developer interface. The left sidebar displays a tree view of database objects under the connection 'BD'. The 'Tables (Filtered)' section contains several tables such as 'CLIENTI', 'LOCATII_1', 'SALARIATI_1', and 'STORIC_PUNCTII'. The main workspace is titled 'Welcome Page' and shows a 'Query Builder' window with the following SQL code:

```
--Gogosaa Petre-Cristian
INSERT INTO clienti_1 VALUES (123237796,'Beck','Branch','0778646796');
```

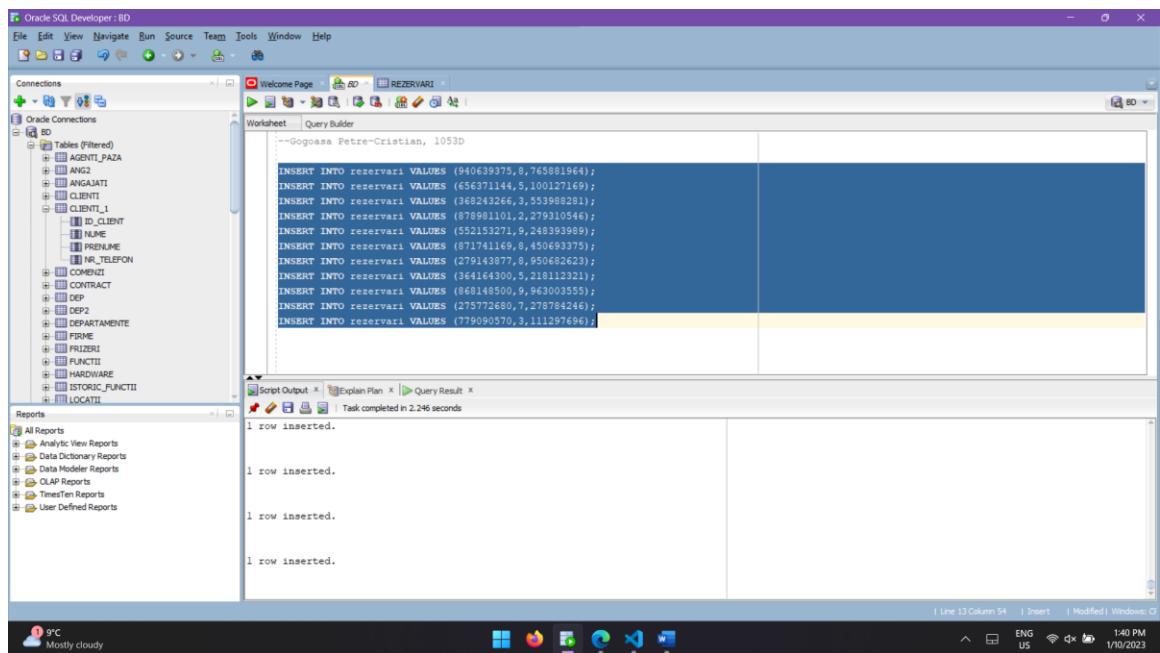
The status bar at the bottom indicates 'Task completed in 0.933 seconds'.

```
INSERT INTO clienti_1 VALUES (123237796,'Beck','Branch','0778646796');
```

The screenshot shows the Oracle SQL Developer interface. In the top navigation bar, the title is "Oracle SQL Developer: BD". The menu includes File, Edit, View, Navigate, Run, Source, Team, Tools, Window, Help. The Connections pane on the left shows a connection named "BD" with several tables listed under "Tables (Filtered)". The "CLIENTI_1" table is selected. The "Worksheet" tab in the center contains a multi-line SQL script starting with a comment "--Gogosca Petre-Cristian, 10530" followed by multiple INSERT statements into the "RECENTII" table. The "Script Output" tab at the bottom shows three rows of output, each indicating "1 row inserted." The status bar at the bottom right shows the date and time: "1/10/2023 1:32 PM".

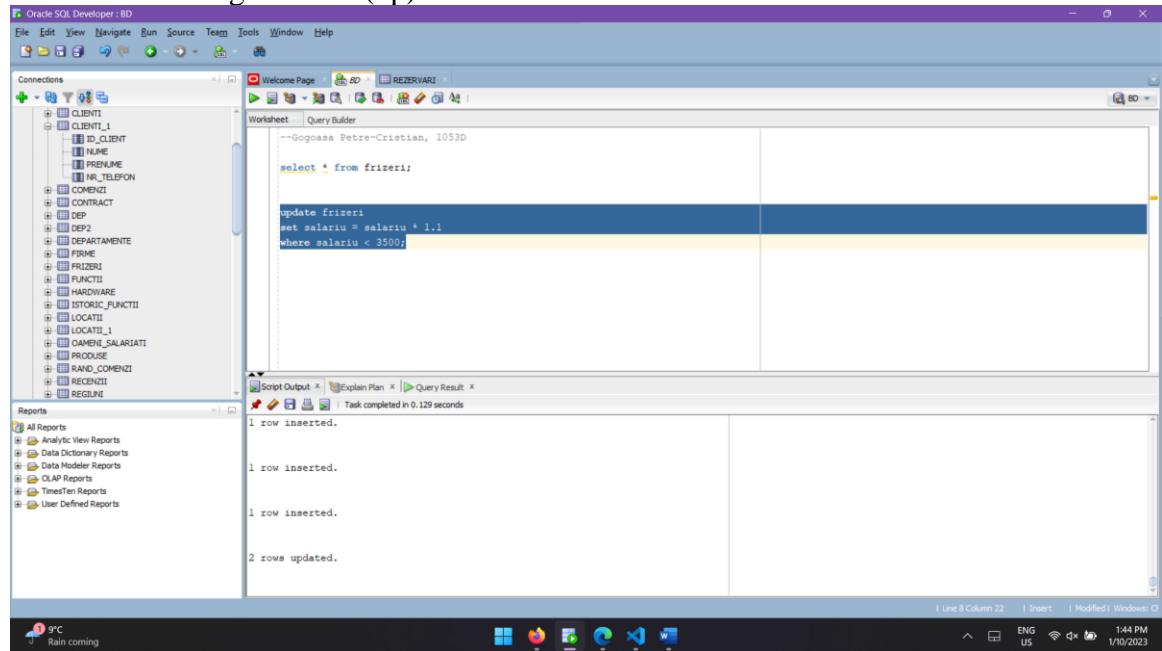
```
--Gogosca Petre-Cristian, 10530
INSERT INTO recentii VALUES (382293078,765881964,2,'Dezamagitor!');
INSERT INTO recentii VALUES (261164178,100127169,4,'Decent, atmosfera buna!');
INSERT INTO recentii VALUES (984726546,553988281,2,'Deplorabil.');
INSERT INTO recentii VALUES (510545908,279310546,3,'O tunsoare ok.');
INSERT INTO recentii VALUES (180856811,248393989,3,'Good price!');
INSERT INTO recentii VALUES (351399389,450693375,4,'Great haircuts!');
INSERT INTO recentii VALUES (601068368,950682623,3,'Tunsori ok si preturi avantajoase.');
INSERT INTO recentii VALUES (483149216,218112321,4,'Pleasant experience! Recommend coming here.');
INSERT INTO recentii VALUES (900246995,963003555,5,'Tunsori superbe si staff profesionist.');
INSERT INTO recentii VALUES (957813087,278784246,4,'Ireprosabil!');
INSERT INTO recentii VALUES (735471786,111297696,3,'Good experience, decent haircut.');
```

```
INSERT INTO recentii VALUES (382293078,765881964,2,'Dezamagitor!');
INSERT INTO recentii VALUES (261164178,100127169,4,'Decent, atmosfera buna!');
INSERT INTO recentii VALUES (984726546,553988281,2,'Deplorabil.');
INSERT INTO recentii VALUES (510545908,279310546,3,'O tunsoare ok.');
INSERT INTO recentii VALUES (180856811,248393989,3,'Good price!');
INSERT INTO recentii VALUES (351399389,450693375,4,'Great haircuts!');
INSERT INTO recentii VALUES (601068368,950682623,3,'Tunsori ok si preturi avantajoase.');
INSERT INTO recentii VALUES (483149216,218112321,4,'Pleasant experience! Recommend coming here.');
INSERT INTO recentii VALUES (900246995,963003555,5,'Tunsori superbe si staff profesionist.');
INSERT INTO recentii VALUES (957813087,278784246,4,'Ireprosabil!');
INSERT INTO recentii VALUES (735471786,111297696,3,'Good experience, decent haircut.');
```



INSERT INTO rezervari VALUES (940639375,8,765881964);
INSERT INTO rezervari VALUES (656371144,5,100127169);
INSERT INTO rezervari VALUES (368243266,3,553988281);
INSERT INTO rezervari VALUES (878981101,2,279310546);
INSERT INTO rezervari VALUES (552153271,9,248393989);
INSERT INTO rezervari VALUES (871741169,8,450693375);
INSERT INTO rezervari VALUES (279143877,8,950682623);
INSERT INTO rezervari VALUES (364164300,5,218112321);
INSERT INTO rezervari VALUES (868148500,9,963003555);
INSERT INTO rezervari VALUES (275772680,7,278784246);
INSERT INTO rezervari VALUES (779090570,3,111297696);

6. Actualizarea inregistrarilor (1p)



The screenshot shows the Oracle SQL Developer interface. In the Connections tree on the left, there is a connection named 'REZERVARI'. The 'Query Builder' tab in the central workspace contains the following SQL code:

```
--Gogoașa Petre-Cristian, 10530
select * from frizeri;

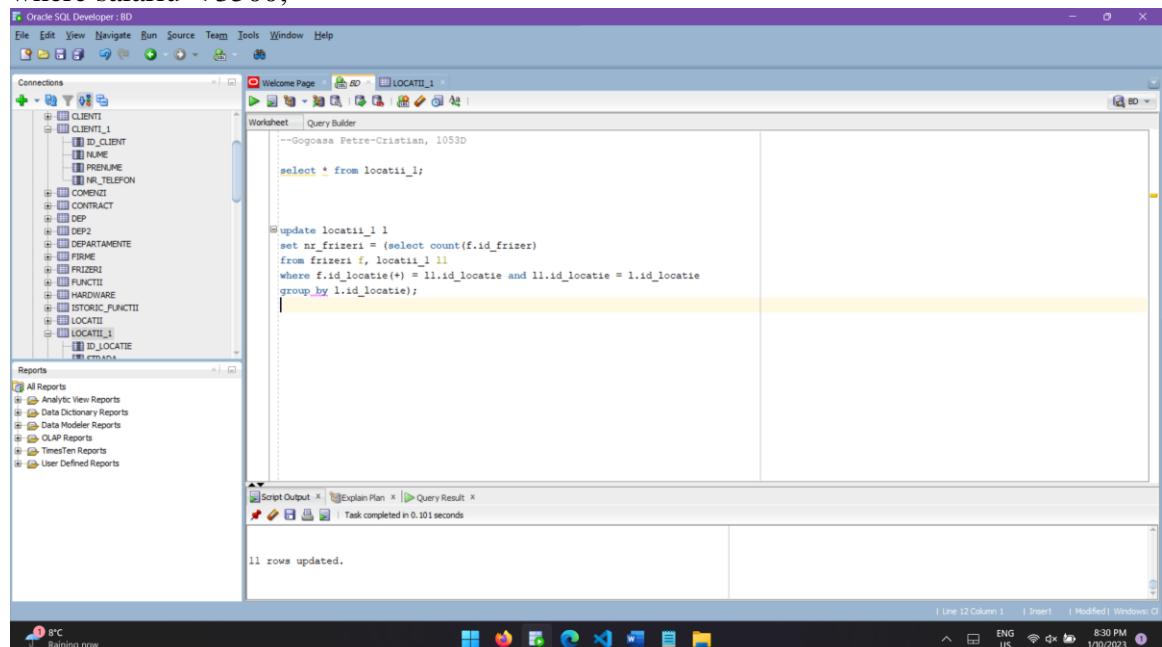
update frizeri
set salariu = salariu * 1.1
where salariu < 3500;
```

The 'Script Output' tab at the bottom shows the results of the execution:

```
1 row inserted.
1 row inserted.
1 row inserted.
2 rows updated.
```

The system tray at the bottom indicates it's 1:44 PM on 1/10/2023, the weather is 9°C with rain coming, and the user is connected to ENG US.

```
update frizeri
set salariu = salariu * 1.1
where salariu < 3500;
```



The screenshot shows the Oracle SQL Developer interface. In the Connections tree on the left, there is a connection named 'LOCATII_1'. The 'Query Builder' tab in the central workspace contains the following SQL code:

```
--Gogoașa Petre-Cristian, 10530
select * from locatii_1;

update locatii_1 l
set nr_frizeri = (select count(f.id_frizer)
from frizeri f, locatii_1 l1
where f.id_locatie(+) = l1.id_locatie and l1.id_locatie = l.id_locatie
group by l.id_locatie);
```

The 'Script Output' tab at the bottom shows the results of the execution:

```
11 rows updated.
```

The system tray at the bottom indicates it's 1:44 PM on 1/10/2023, the weather is 8°C with rain coming, and the user is connected to ENG US.

```
update locatii_1 l
set nr_frizeri = (select count(f.id_frizer)
from frizeri f, locatii_1 l1
where f.id_locatie(+) = l1.id_locatie and l1.id_locatie = l.id_locatie
group by l.id_locatie);
```

The screenshot shows the Oracle SQL Developer interface. The Connections tree on the left lists several schemas, including 'CLIENTI' and 'LOCATII_1'. The Worksheet tab in the center contains the following SQL code:

```
--Gogaasa Petre-Cristian, 1053D
select * from locatii_1;

update recenzzii
set rating = 5
where id_recenzie = 957813087;
```

The Script Output tab at the bottom shows the results of the update statement:

```
Task completed in 0.062 seconds
from locatii_1..LOCATII_1
where f.id_locatie(+) = l.id_locatie
group by l.id_locatie
Error report -
ORA-01427: single-row subquery returns more than one row

11 rows updated.

1 row updated.
```

update recenzzii
set rating = 5
where id_recenzie = 957813087;

7. Stergerea si recuperarea unei tabele (1p)

The screenshot shows the Oracle SQL Developer interface. The Connections tree on the left lists several schemas, including 'CLIENTI' and 'LOCATII_1'. The Worksheet tab in the center contains the following SQL code:

```
--Gogaasa Petre-Cristian, 1053D
select * from locatii_1;

drop table recenzzii;
```

The Script Output tab at the bottom shows the results of the drop statement:

```
Task completed in 0.149 seconds
11 rows updated.

1 row updated.

Commit complete.

Table RECENTII dropped.
```

drop table recenzzii;

The screenshot shows the Oracle SQL Developer interface. In the Connections pane, a connection named 'BD' is selected, showing tables like CLIENT, LOCATII_1, and LOCATII. The Worksheet pane contains the following SQL code:

```
--Gogosca Petre-Cristian, 1053D
select * from locatii_1;

flashback table recenzii to before drop;
```

The Script Output pane shows the results of the flashback command:

```
1 row updated.

Commit complete.

Table RECENZII dropped.

Flashback succeeded.
```

flashback table recenzii to before drop;

8. Exemple de interogări variate (min 20) – incluzând și operatorii UNION, INTERSECT, MINUS, expresiile DECODE și CASE, cereri imbricate, diverse funcții single-row, functii de grup, structuri ierarhice, jonctiuni. (1,5p)

- Să se afișeze toți frizerii și locațiile unde aceștia lucrează (strada + codul postal).

The screenshot shows the Oracle SQL Developer interface. In the Connections pane, a connection named 'BD' is selected, showing tables like CLIENT, LOCATII_1, and LOCATII. The Worksheet pane contains the following SQL code:

```
--Gogosca Petre-Cristian, 1053D
select * from locatii_1;

select f.nume, f.prenume, l.strada, l.cod_postal
from frizeri f, locatii_1 l
where f.id_locatie = l.id_locatie;
```

The Query Result pane displays the results of the query:

ID_LOCATIE	ID_CLIENT	NUME	PRENUME	NR_TELEFON	STRADA	COD_POSTAL
1	1	Beck Branch	petre	ispirescu	053278	
2	2	Kaseem Carroll	nicolaie	grigorescu	037321	
3	3	Reuben Conrad	polona		013459	
4	4	Damian Richards	i.c.	bratianu	035687	
5	5	Brent Cooper	i.c.	bratianu	035687	
6	6	Quinn Serrano	petre	ispirescu	053278	
7	7	Allen Medina	polona		013459	
8	8	Samuel Wong	dorobanti		013405	
9	9	Gareth Schneider	dorobanti		013405	
10	10	Ashton Huber	nicolaie	grigorescu	037321	
11	11	Fuller Ramos	polona		013459	

```
select f.nume, f.prenume, l.strada, l.cod_postal
from frizeri f, locatii_1 l
where f.id_locatie = l.id_locatie;
```

- Să se afișeze o listă cu toți frizerii, mai puțin cei din locația cu id-ul 2.

The screenshot shows the Oracle SQL Developer interface. The Connections tree on the left shows a connection named 'BD' with several schemas like CLIENTI, COMENZI, CONTRACT, DEP, DEPARTAMENTE, FIRME, FRIZERI, FUNCTII, HARDWARE, ISTORIC_FUNCTII, LOCATII, and LOCATII_1. The central workspace contains a query builder window with the following SQL code:

```
--Gogoașa Petre-Cristian, 10530
select * from locatii_1;

--select nume, prenume, id_locatie
from frizeri
minus
select nume, prenume, id_locatie
from frizeri
where id_locatie = 2;
```

The results pane shows a table with columns 'NUME', 'PRENUME', and 'ID_LOCATIE'. The data is as follows:

NUME	PRENUME	ID_LOCATIE
Allen Medina	6	
Ashton Huber	7	
Beck Branch	9	
Brent Cooper	11	
Damian Richards	11	
Fuller Ramos	6	
Kaseem Carroll	7	
Quinn Serrano	9	
Reuben Conrad	6	

```
select nume, prenume, id_locatie
from frizeri
minus
select nume, prenume, id_locatie
from frizeri
where id_locatie = 2;
```

- Să se afișeze, pentru fiecare recenzie, numele și prenumele clientului care a postat recenzia, dar și numele și prenumele frizerului care s-a ocupat de rezervare.

The screenshot shows the Oracle SQL Developer interface. The Connections tree on the left shows a connection named 'BD' with the same schemas as before. The central workspace contains a query builder window with the following SQL code:

```
--Gogoașa Petre-Cristian, 10530
select f.nume || ' ' || f.prenume "NUME SI PRENUME FRIZER", c.nume || ' ' || c.prenume "NUME SI PRENUME CLIENT", r.text_recenzie
from frizeri f, rezervari r, clienti_1 c, recenzie r
where f.id_frizer = r.id_frizer and r.id_client = c.id_client and c.id_client = r.id_client;
```

The results pane shows a table with columns 'NUME SI PRENUME FRIZER', 'NUME SI PRENUME CLIENT', and 'TEXT_RECENZIE'. The data is as follows:

NUME SI PRENUME FRIZER	NUME SI PRENUME CLIENT	TEXT_RECENZIE
Samuel Wong	Huber Rafael	Dezamagitor!
Brent Cooper	Simmons Eric	Decent, atmosfera buna!
Reuben Conrad	Coffey Arsenio	Deplorabil.
Kaseem Carroll	Riddle Branden	O tunsare ok.
Gareth Schneider	Yates Camden	Good price!
Samuel Wong	Spencer George	Great haircut!
Samuel Wong	Bray Martin	Tunsori ok și preturi avantajoase.
Brent Cooper	Mendoza Keefe	Pleasant experience! Recommend coming here.
Gareth Schneider	Porter Channing	Tunsori superbe și staff profesionist.
Allen Medina	Brennan George	Irreprosabil!
Reuben Conrad	Chaney Nigel	Good experience, decent haircut.

```

select f.nume || ' ' || f.prenume "NUME SI PRENUME FRIZER", c.nume || ' ' ||
c.prenume "NUME SI PRENUME CLIENT", r.text_recenzie
from frizeri f, rezervari re, clienti_1 c, recenzii r
where f.id_frizer = re.id_frizer and re.id_client = c.id_client and c.id_client =
r.id_client;

```

➤ Afipați o listă cu toate persoanele din baza de date, fie ei clienți ori frizeri.

The screenshot shows the Oracle SQL Developer interface. On the left, the Connections tree shows several schemas like CLIENTI, CONTRACT, DEP, DEP2, DEPARTAMENTE, FIRME, FRIZERI, FUNCTII, HARDWARE, LOCATII, and LOCATII_1. The central workspace contains a query window with the following code:

```
--Gogoașa Petre-Cristian, 10530
select nume, prenume
from clienti_1
union
select nume, prenume
from frizeri;
```

Below the query window is the Script Output tab, which displays the results:

NUME	PRENUME
Allen	Medina
Ashton	Huber
J Beck	Branch
Bray	Martin
Brennan	George
Brent	Cooper
Chaney	Nigel
Coffey	Arsenio
Damian	Richards
Fuller	Ramos
Gareth	Schneider
Huber	Rafael

The status bar at the bottom indicates the query took 0.038 seconds to execute.

```

select nume, prenume
from clienti_1
union
select nume, prenume
from frizeri;

```

- Încadrați frizerii în 3 categorii, funcție de salariul lor: salariu mic (2550-3500), salariu mediu(3501-4200), salariu mare(peste 4200).

The screenshot shows the Oracle SQL Developer interface. In the top-left pane, there's a tree view of database objects under a connection named 'BD'. The 'FRIZERI' table is selected. The main area has two tabs: 'Worksheet' and 'Query Result'. The 'Worksheet' tab contains the following SQL code:

```
--Gogosă Petre-Cristian, 1053D
select id_frizer, nume, prenume, salariu,
case
    when salariu between 2550 and 3500 then 'salariu mic'
    when salariu between 3500 and 4200 then 'salariu mediu'
    when salariu > 4200 then 'salariu mare'
    else 'salariu invalid'
end as "TIP SALARIU"
from frizeri;
```

The 'Query Result' tab shows the output of the query, which is a table with four columns: ID_FRIZER, NUME, PRENUME, and TIP SALARIU. The data is as follows:

ID_FRIZER	NUME	PRENUME	TIP SALARIU
1	Beck	Branish	salariu mare
2	Kaseem	Carroll	salariu mic
3	Reuben	Conrad	salariu mediu
4	Damian	Richards	salariu mediu
5	Brent	Cooper	salariu mare
6	Quinn	Serrano	salariu mediu
7	Allen	Medina	salariu mare
8	Samuel	Wong	salariu mare
9	Gareth	Schneider	salariu mare
10	Ashton	Huber	salariu mic
11	Fuller	Ramos	salariu mediu

```
select id_frizer, nume, prenume, salariu,
case
    when salariu between 2550 and 3500 then 'salariu mic'
    when salariu between 3500 and 4200 then 'salariu mediu'
    when salariu > 4200 then 'salariu mare'
    else 'salariu invalid'
end as "TIP SALARIU"
from frizeri;
```

- Să se afișeze id-ul, numele și prenumele fiecărui frizer și sectorul din București în care lucreaza.

The screenshot shows the Oracle SQL Developer interface. In the top-left pane, there's a tree view of database connections and objects. The 'Connections' section shows a connection named 'BD'. The 'Locatii_1' schema is selected, displaying tables like 'CLIENTI', 'FRIZERI', and 'LOCATII'. Below this is a 'Reports' section with various report types. The main workspace consists of two tabs: 'Worksheet' and 'Query Result'. The 'Worksheet' tab contains the following SQL query:

```

--Gogosă Petre-Cristian, 10530
select f.id_frizer, f.nume, f.prenume,
case
when l.cod_postal like '01%' then 'sector 1'
when l.cod_postal like '02%' then 'sector 2'
when l.cod_postal like '03%' then 'sector 3'
when l.cod_postal like '04%' then 'sector 4'
when l.cod_postal like '05%' then 'sector 5'
when l.cod_postal like '06%' then 'sector 6'
else 'invalid'
end as sector
from frizeri f, locatii_1 l
where f.id_locatie = l.id_locatie;

```

The 'Query Result' tab displays the output of the query, which is a table with three columns: ID_FRIZER, NUME, and SECTOR. The data is as follows:

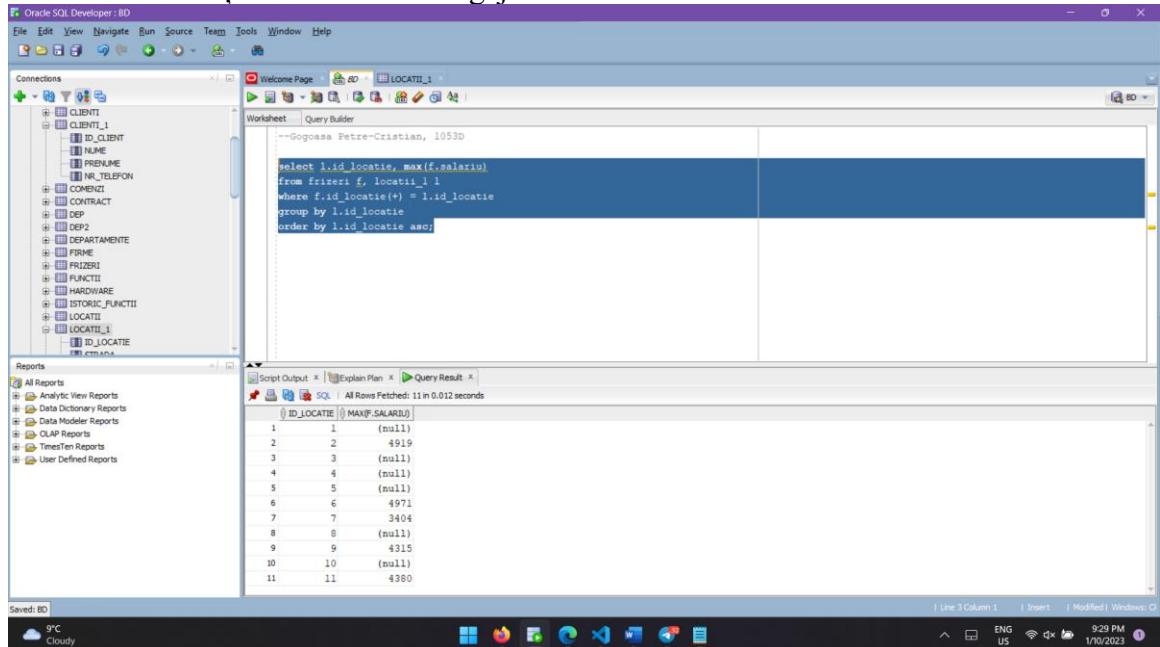
ID_FRIZER	NUME	SECTOR
1	Beck Branch	sector 5
2	Kaseem Carroll	sector 3
3	Reuben Conrad	sector 1
4	Damian Richards	sector 3
5	Brent Cooper	sector 3
6	Quinn Serrano	sector 5
7	Allen Medina	sector 1
8	Samuel Wong	sector 1
9	Gareth Schneider	sector 1
10	Ashton Huber	sector 3
11	Fuller Ramos	sector 1

```

select f.id_frizer, f.nume, f.prenume,
case
when l.cod_postal like '01%' then 'sector 1'
when l.cod_postal like '02%' then 'sector 2'
when l.cod_postal like '03%' then 'sector 3'
when l.cod_postal like '04%' then 'sector 4'
when l.cod_postal like '05%' then 'sector 5'
when l.cod_postal like '06%' then 'sector 6'
else 'invalid'
end as sector
from frizeri f, locatii_1 l
where f.id_locatie = l.id_locatie;

```

- Să se afișeze salariul maxim din fiecare locație care are angajați sau null dacă locație nu are niciun angajat la momentul curent.



The screenshot shows the Oracle SQL Developer interface. The left pane displays a tree view of database objects under 'Connections' for a schema named 'BD'. The right pane has a 'Worksheet' tab open with the following SQL query:

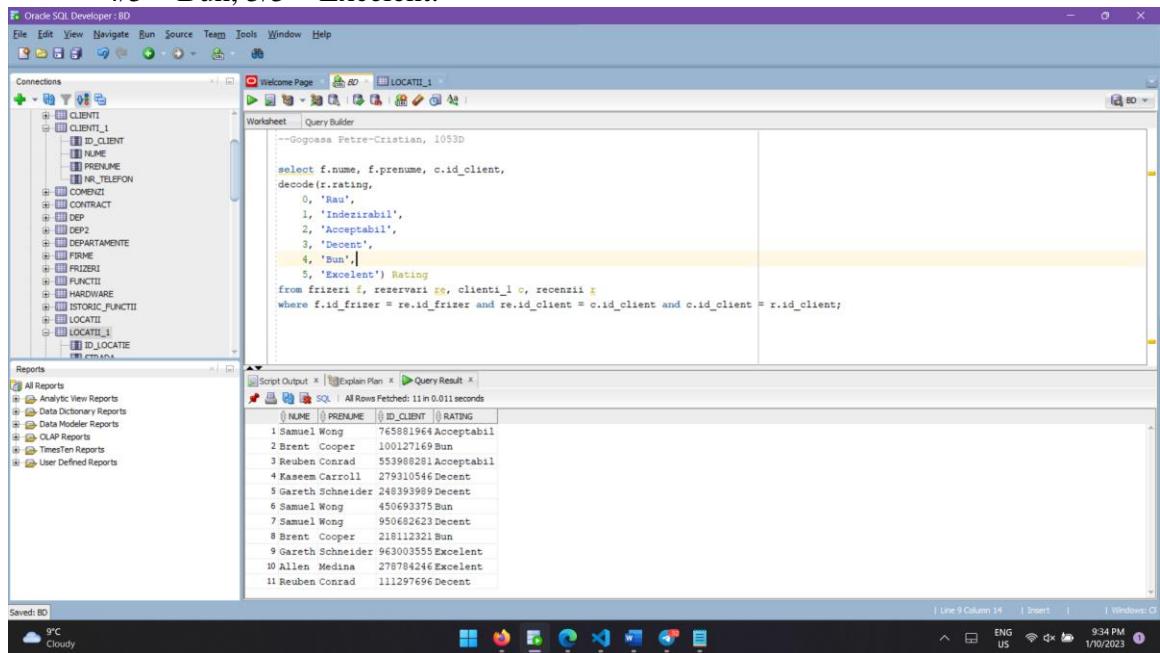
```
--Gogoașa Petre-Cristian, 10530
select l.id_locatie, max(f.salariu)
from frizeri f, locatii_l l
where f.id_locatie(+) = l.id_locatie
group by l.id_locatie
order by l.id_locatie asc;
```

Below the worksheet is a 'Query Result' tab showing the output:

ID_LOCATIE	MAX(F.SALARIU)
1	(null)
2	4919
3	(null)
4	(null)
5	(null)
6	4971
7	3404
8	(null)
9	4315
10	(null)
11	4380

```
select l.id_locatie, max(f.salariu)
from frizeri f, locatii_l l
where f.id_locatie(+) = l.id_locatie
group by l.id_locatie
order by l.id_locatie asc;
```

- Să se afișeze numele, prenumele și id-ul clientului, alături de rating-ul pe care l-au lăsat: 0/5 – Rău, 1/5 – Indezirabil, 2/5 – Acceptabil, 3/5 – Decent, 4/5 – Bun, 5/5 – Excellent.



The screenshot shows the Oracle SQL Developer interface. The left pane displays a tree view of database objects under 'Connections' for a schema named 'BD'. The right pane has a 'Worksheet' tab open with the following SQL query:

```
--Gogoașa Petre-Cristian, 10530
select f.nume, f.prenume, c.id_client,
decode(r.rating,
    0, 'Rau',
    1, 'Indezirabil',
    2, 'Acceptabil',
    3, 'Decent',
    4, 'Bun',
    5, 'Excellent') Rating
from frizeri f, rezervari_rz, clienti_l c, recenzii_rz
where f.id_frizer = rz.id_frizer and rz.id_client = c.id_client and c.id_client = rz.id_client;
```

Below the worksheet is a 'Query Result' tab showing the output:

NUME	PRENUME	ID_CLIENT	RATING
Samuel Wong	765881964		Acceptabil
Brent Cooper	100127169		Bun
Reuben Conrad	553988281		Acceptabil
Kaseem Carroll	279310546		Decent
Gareth Schneider	248393989		Decent
Samuel Wong	450693375		Bun
Samuel Wong	950682623		Decent
Brent Cooper	218112321		Bun
Gareth Schneider	963003555		Excellent
Allen Medina	278704246		Excellent
Reuben Conrad	111297696		Decent

```

select f.nume, f.prenume, c.id_client,
decode(r.rating,
    0, 'Rau',
    1, 'Indezirabil',
    2, 'Acceptabil',
    3, 'Decent',
    4, 'Bun',
    5, 'Excelent') Rating
from frizeri f, rezervari re, clienti_1 c, recenzii r
where f.id_frizer = re.id_frizer and re.id_client = c.id_client and c.id_client =
r.id_client;

```

- Să se afișeze, pe o singură coloană, numele complet al fiecărui frizer alături de salariul acestuia.

```

--Gogoașa Petre-Cristian, 10530
select concat(concat(nume || ' ', prenume) || ', ', salariu) "Nume complet si salariu frizer"
from frizeri;

```

Nume complet si salariu frizer
1 Beck Branch, 4315
2 Kaseem Carroll, 3404
3 Reuben Conrad, 3530
4 Damian Richards, 3735
5 Brent Cooper, 4380
6 Quinn Serrano, 4070
7 Allen Medina, 4971
8 Samuel Wong, 4919
9 Gareth Schneider, 4872
10 Ashton Huber, 3176
11 Fuller Ramos, 4137

```

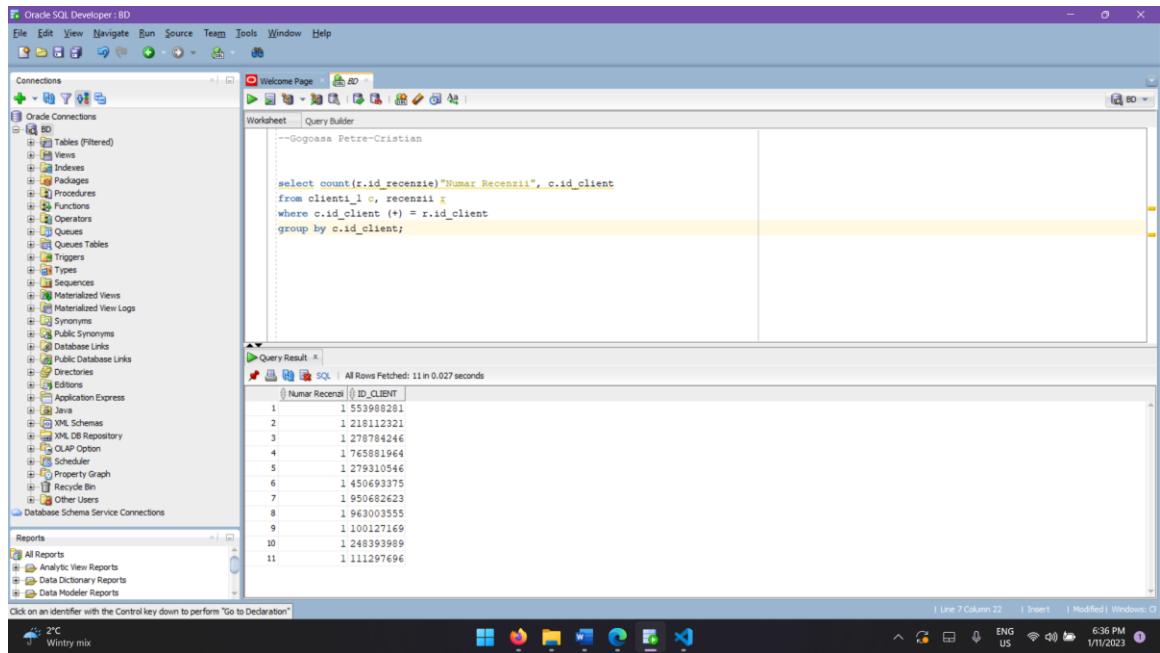
select concat(concat(nume || ' ', prenume) || ', ', salariu) "Nume complet si salariu frizer"
from frizeri;

```

- Să se afișeze id-ul fiecărei locații cu angajați și media salariului din acea locație. Să se ordoneze lista în funcție de media salariului în ordine crescătoare.

```
select l.id_locatie, avg(f.salariu) "Medie Salariu"
from locatii_1 l, frizeri f
where f.id_locatie = l.id_locatie
group by l.id_locatie
having avg(f.salariu) > 4000
order by avg(f.salariu);
```

- Să se afișeze numărul de recenzii lăsate de fiecare client, alături de id-ul fiecărui client.



The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the 'Connections' tree, with 'BD' selected. The 'Worksheet' tab contains the following SQL code:

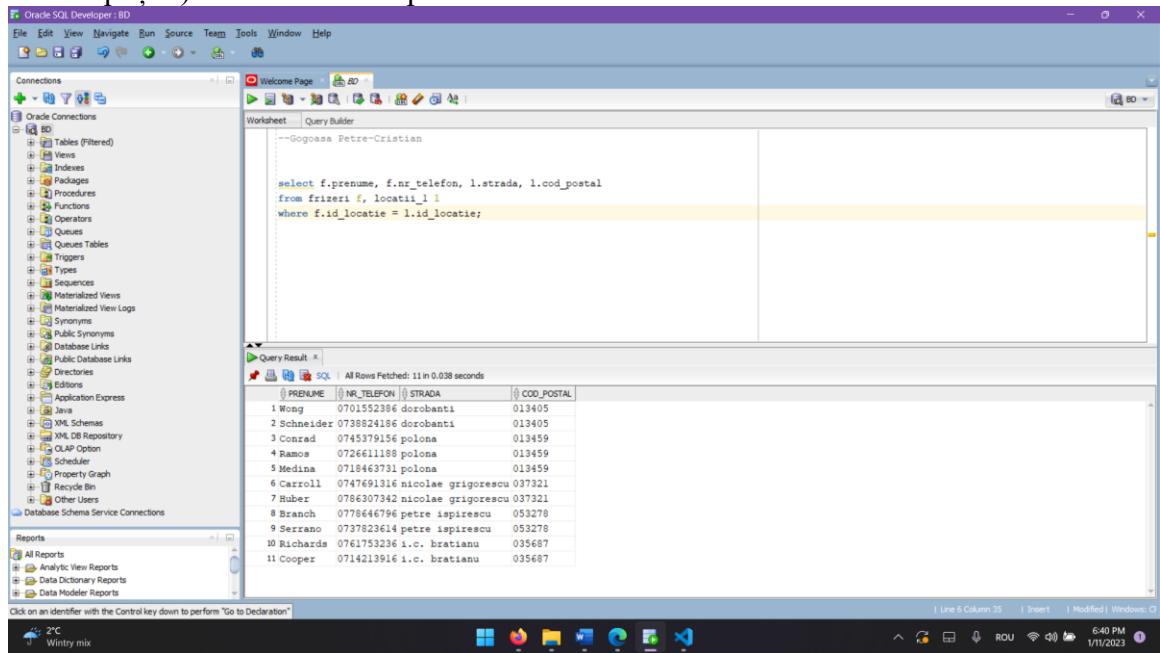
```
--Gogoașa Petre-Cristian
select count(r.id_recenzie)"Numar Recenzii", c.id_client
from clienti_1 c, recenzii r
where c.id_client (+) = r.id_client
group by c.id_client;
```

The 'Query Result' tab shows the output of the query:

	Numar Recenzi	ID_CLIENT
1	1	553988281
2	1	218112321
3	1	278784246
4	1	765881964
5	1	279310546
6	1	450693375
7	1	950682623
8	1	963003555
9	1	100127169
10	1	248393989
11	1	111297696

```
select count(r.id_recenzie)"Numar Recenzii", c.id_client
from clienti_1 c, recenzii r
where c.id_client (+) = r.id_client
group by c.id_client;
```

- Să se afișeze prenumele, numărul de telefon și adresa locației (strada + cod poștal) în care lucrează pentru fiecare frizer.



The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the 'Connections' tree, with 'BD' selected. The 'Worksheet' tab contains the following SQL code:

```
--Gogoașa Petre-Cristian
select f.prenume, f.nr_telefon, l.strada, l.cod_postal
from frizeri f, locatii_1 l
where f.id_locatie = l.id_locatie;
```

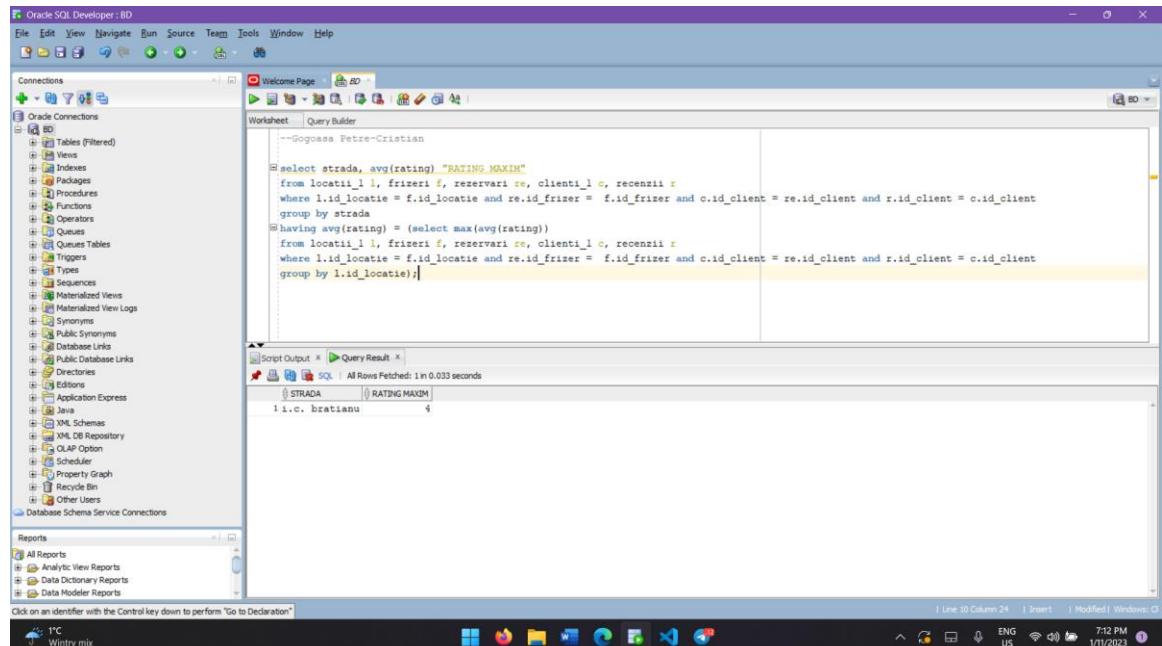
The 'Query Result' tab shows the output of the query:

PRENUME	NR_TELEFON	STRADA	COD_POSTAL
Wong	0701552386	dorobanti	013405
Schneider	0738824186	dorobanti	013405
Conrad	0745379156	polona	013459
Ramos	0726611188	polona	013459
Medina	0718463731	polona	013459
Carroll	0747691316	nicolae grigorescu	037321
Huber	0786307342	nicolae grigorescu	037321
Branch	0778646796	petre ispirescu	053278
Serrano	0737823614	petre ispirescu	053278
Richards	0761753236	i.c. bratiu	035687
Cooper	0714213916	i.c. bratiu	035687

```
select f.prenume, f.nr_telefon, l.strada, l.cod_postal
from frizeri f, locatii_1 l
```

where f.id_locatie = l.id_locatie;

- Să se afișeze locația(locările) cu rating-ul mediu maxim dintre cele existente.



The screenshot shows the Oracle SQL Developer interface. The left sidebar contains a tree view of database objects under 'Connections' (BD). The central area has two tabs: 'Worksheet' and 'Query Builder'. The 'Worksheet' tab contains the following SQL query:

```
--Gogocasa Petre-Cristian
select strada, avg(rating) "RATING MAXIM"
from locatii_1 l, frizeri f, rezervari re, clienti_1 c, recenzii r
where l.id_locatie = f.id_locatie and re.id_frizer = f.id_frizer and c.id_client = re.id_client and r.id_client = c.id_client
group by strada
having avg(rating) = (select max(avg(rating))
from locatii_1 l, frizeri f, rezervari re, clienti_1 c, recenzii r
where l.id_locatie = f.id_locatie and re.id_frizer = f.id_frizer and c.id_client = re.id_client and r.id_client = c.id_client
group by l.id_locatie);
```

The 'Script Output' tab shows the results of the query:

STRADA	RATING MAXIM
l.i.c. bratianu	4

The status bar at the bottom right indicates: Line 10 Column 24, Insert, Modified, Windows, 7:12 PM, 1/11/2023, ENG US.

```
select strada, avg(rating) "RATING MAXIM"
from locatii_1 l, frizeri f, rezervari re, clienti_1 c, recenzii r
where l.id_locatie = f.id_locatie and re.id_frizer = f.id_frizer and c.id_client = re.id_client and r.id_client = c.id_client
group by strada
having avg(rating) = (select max(avg(rating))
from locatii_1 l, frizeri f, rezervari re, clienti_1 c, recenzii r
where l.id_locatie = f.id_locatie and re.id_frizer = f.id_frizer and c.id_client = re.id_client and r.id_client = c.id_client
group by l.id_locatie);
```

- Să se afișeze numele și prenumele frizerilor care sunt și clienți.

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar shows a connection named 'BD'. The 'Worksheet' tab contains the following SQL query:

```
--Gogașa Petre-Cristian
select nume, prenume
from frizeri
intersect
select nume, prenume
from clienti_1;
```

The 'Script Output' and 'Query Result' panes show the results of the query. The results table has columns 'NUME' and 'PRENUME', and contains one row: 'Beck Branch'.

```
select nume, prenume
from frizeri
intersect
select nume, prenume
from clienti_1;
```

- Să se afișeze rating-ul mediu pentru fiecare frizer care a avut măcar un client și numele și prenumele frizerului concatenate pe aceeași coloană.

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar shows a connection named 'BD'. The 'Worksheet' tab contains the following SQL query:

```
--Gogașa Petre-Cristian
select f.nume || ' ' || f.prenume frizer, avg(r.rating) "RATING MEDIU"
from frizeri f, rezervari re, clienti_1 c, recenziei r
where f.id_frizer = re.id_frizer and c.id_client = re.id_client and r.id_client = c.id_client
group by f.nume || ' ' || f.prenume
order by "RATING MEDIU" desc;
```

The 'Script Output' and 'Query Result' panes show the results of the query. The results table has columns 'FRIZER' and 'RATING MEDIU', and contains six rows:

FRIZER	RATING MEDIU
Allen Medina	5
Brent Cooper	4
Gareth Schneider	4
Kaseem Carroll	3
Samuel Wong	3
Reuben Conrad	2.5

```
select f.nume || ' ' || f.prenume frizer, avg(r.rating) "RATING MEDIU"
```

```

from frizeri f, rezervari re, clienti_1 c, recenzii r
where f.id_frizer = re.id_frizer and c.id_client = re.id_client and r.id_client =
c.id_client
group by f.nume || ' ' || f.prenume
order by "RATING MEDIU" desc;

```

- Să se afișeze numele și prenumele fiecărui client și numărul de rezervări făcute.

The screenshot shows the Oracle SQL Developer interface. In the Worksheet pane, there is a comment --Gogoașa Petre-Cristian and a SQL query:

```

--Gogoașa Petre-Cristian

select c.nume || ' ' || c.prenume client, count(r.id_rezervare) "NR REZERVARI"
from clienti_1 c, rezervari r
where c.id_client = r.id_client(+)
group by c.nume || ' ' || c.prenume;

```

In the Query Result pane, the output is a table:

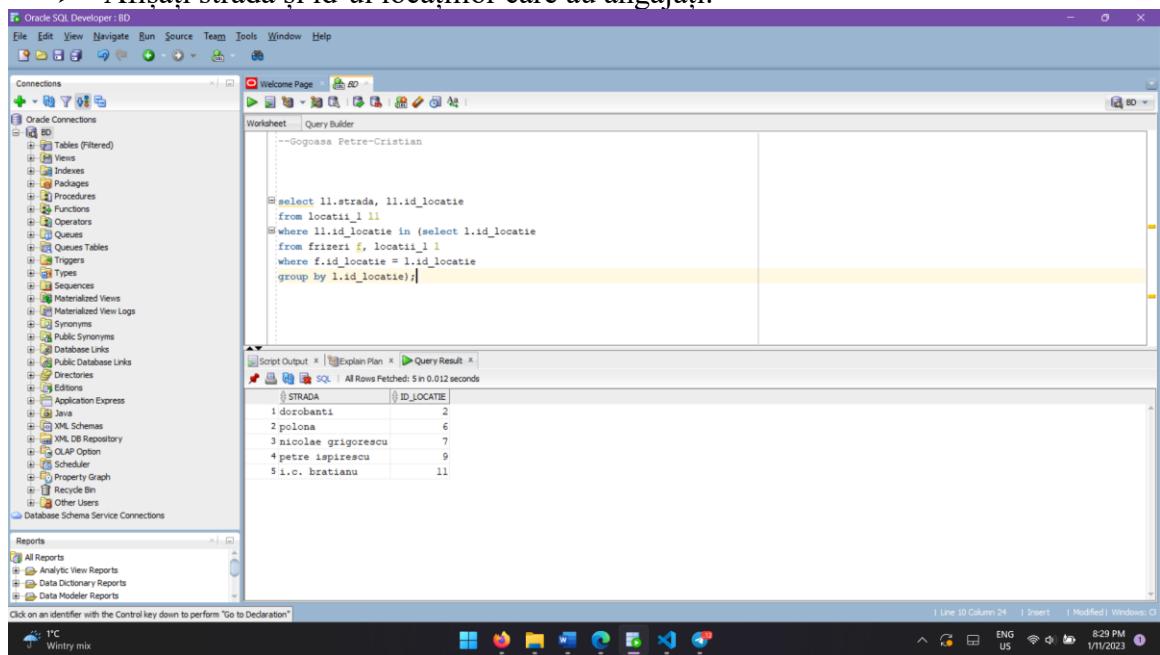
CLIENT	NR REZERVARI
1 Simmons Eric	1
2 Chaney Nigel	1
3 Riddle Branden	1
4 Spencer George	1
5 Brennan George	1
6 Beck Branch	0
7 Huber Rafael	1
8 Mendoza Keefe	1
9 Bray Martin	1
10 Yates Camden	1
11 Porter Channing	1
12 Coffey Arsenio	1

```

select c.nume || ' ' || c.prenume client, count(r.id_rezervare) "NR REZERVARI"
from clienti_1 c, rezervari r
where c.id_client = r.id_client(+)
group by c.nume || ' ' || c.prenume;

```

➤ Afipați strada și id-ul locațiilor care au angajați.



The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the database schema with various objects like Tables, Views, Indexes, Procedures, Functions, Operators, Triggers, Sequences, Materialized Views, Synonyms, Public Synonyms, Database Links, and Application Express. The central workspace contains a query window with the following SQL code:

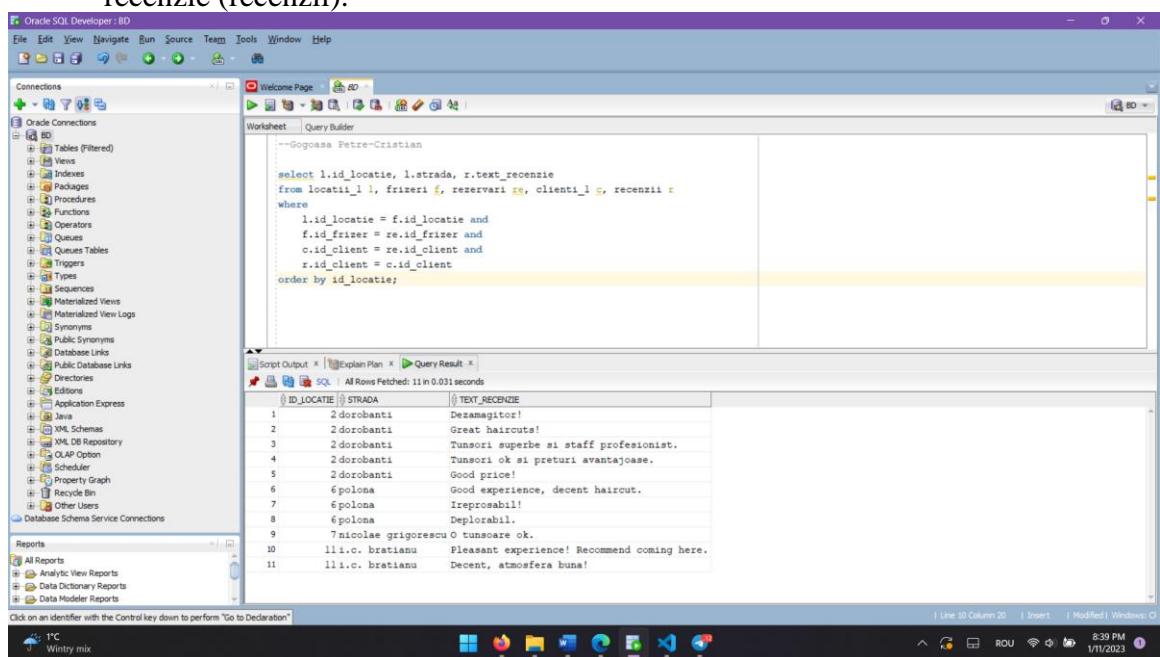
```
--Gogașa Petre-Cristian
select l1.strada, l1.id_locatie
from locatii_1 l1
where l1.id_locatie in (select l.id_locatie
from frizeri f, locatii_1 l
where f.id_locatie = l.id_locatie
group by l.id_locatie);
```

Below the query window, the results are displayed in a table:

STRADA	ID_LOCATIE
1 dorobanti	2
2 polona	6
3 nicolae grigorescu	7
4 petre ispirescu	9
5 i.c. bratianu	11

```
select l1.strada, l1.id_locatie
from locatii_1 l1
where l1.id_locatie in (select l.id_locatie
from frizeri f, locatii_1 l
where f.id_locatie = l.id_locatie
group by l.id_locatie);
```

➤ Afipați strada și id-ul fiecărei locații care are cel puțin o recenzie, alături de recenzie (recenzii).



The screenshot shows the Oracle SQL Developer interface. The left sidebar displays the database schema. The central workspace contains a query window with the following SQL code:

```
--Gogașa Petre-Cristian
select l.id_locatie, l.strada, r.text_recenzie
from locatii_1 l, frizeri f, rezervari r, clienti c, recenzii s
where
l.id_locatie = f.id_locatie and
f.id_frizer = re.id_frizer and
c.id_client = re.id_client and
r.id_client = c.id_client
order by id_locatie;
```

Below the query window, the results are displayed in a table:

ID_LOCATIE	STRADA	TEXT_RECENZIE
1	2 dorobanti	Desmagitor!
2	2 dorobanti	Great haircut!
3	2 dorobanti	Tunsoari superbe si staff profesionist.
4	2 dorobanti	Tunsoari ok si preturi avantajoase.
5	2 dorobanti	Good price!
6	6 polona	Good experience, decent haircut.
7	6 polona	Irreproachable!
8	6 polona	Deporable.
9	7 nicolae grigorescu	O tunsoare ok.
10	11 i.c. bratianu	Pleasant experience! Recommend coming here.
11	11 i.c. bratianu	Decent, atmosfera buna!

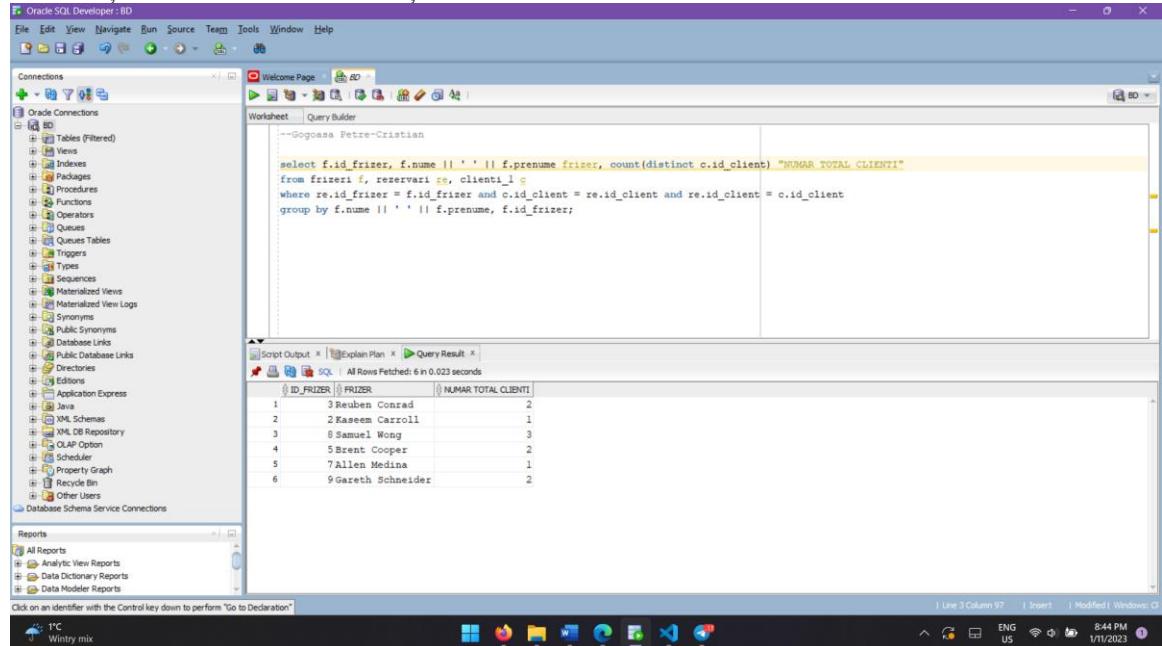
```
select l.id_locatie, l.strada, r.text_recenzie
```

from locatii_1 l, frizeri f, rezervari re, clienti_1 c, recenzii r
 where

```

    l.id_locatie = f.id_locatie and
    f.id_frizer = re.id_frizer and
    c.id_client = re.id_client and
    r.id_client = c.id_client
  order by id_locatie;
```

- Afipați numele complet și id-ul fiecărui frizer care a avut cel puțin un client și numărul total al clienților.



```
--Gogosan Petre-Cristian
select f.id_frizer, f.nume || ' ' || f.prenume frizer, count(distinct c.id_client) "NUMAR TOTAL CLIENTI"
from frizeri f, rezervari re, clienti_1 c
where re.id_frizer = f.id_frizer and c.id_client = re.id_client and re.id_client = c.id_client
group by f.nume || ' ' || f.prenume, f.id_frizer;
```

ID_FRIZER	FRIZER	NUMAR TOTAL CLIENTI
1	3 Reuben Conrad	2
2	2 Kaseem Carroll	1
3	8 Samuel Wong	3
4	5 Brent Cooper	2
5	7 Allen Medina	1
6	9 Gareth Schneider	2

```
select f.id_frizer, f.nume || ' ' || f.prenume frizer, count(distinct c.id_client)
"NUMAR TOTAL CLIENTI"
from frizeri f, rezervari re, clienti_1 c
where re.id_frizer = f.id_frizer and c.id_client = re.id_client and re.id_client =
c.id_client
group by f.nume || ' ' || f.prenume, f.id_frizer;
```

➤ Să se afișeze numele și prenumele clientilor care încep cu litera „b”.

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar shows a connection to 'BD'. The 'Worksheet' tab contains the following SQL code:

```
--Gogașa Petre-Cristian
select nume, prenume
from clienti_1 c
where upper(c.nume) like upper('b%');
```

The 'Query Result' tab displays the output:

NUME	PRENUME
Bray	Martin
Brennan	George
Beck	Branch

```
select nume, prenume
from clienti_1 c
where upper(c.nume) like upper('b%');
```

9. Gestuirea altor obiecte ale bazei de date: vederi, indecsi, sinonime, secente. (1p)

➤ Să se creeze o vedere.

The screenshot shows the Oracle SQL Developer interface. The 'Connections' sidebar shows a connection to 'BD'. The 'Worksheet' tab contains the following SQL code to create a view:

```
--Gogașa Petre-Cristian
create or replace view informatii_clienti as
select c.id_client "ID CLIENT", c.nume "NUME CLIENT", avg(r.rating) "RATING MEDIU",
count(f.id_frizer) "NUMAR FRIZERI INCERCATI", count(re.id_rezervare) "REZERVARI PLASATE"
from locatii_1 l, frizeri f, rezervari re, clienti_1 c, recenzii r
where
l.id_locatie = f.id_locatie and
re.id_frizer = f.id_frizer and
c.id_client = re.id_client and
r.id_client = c.id_client
group by c.id_client, c.nume;
```

The 'Query Result' tab shows the message: 'View INFORMATII_CLIENTI created.'

```
create or replace view informatii_clienti as
```

```

select c.id_client "ID CLIENT", c.nume "NUME CLIENT", avg(r.rating)
"RATING MEDIU",
count(f.id_frizer) "NUMAR FRIZERI INCERCATI", count(re.id_rezervare)
"REZERVARI PLASATE"
from locatii_1 l, frizeri f, rezervari re, clienti_1 c, recenzii r
where
l.id_locatie = f.id_locatie and
re.id_frizer = f.id_frizer and
c.id_client = re.id_client and
r.id_client = c.id_client
group by c.id_client, c.nume;

```

- Să se selecteze, din vedere, id-ul și numele clienților cu rating mediu peste 3.

ID CLIENT	NUME CLIENT
1	100127169 Simmons
2	218112321 Mendoza
3	963003555 Porter
4	278784246 Brennan
5	450693375 Spencer

```

select "ID CLIENT", "NUME CLIENT"
from informatii_clienti
where "RATING MEDIU" > 3;

```

➤ Să se steargă vederea.

The screenshot shows the Oracle SQL Developer interface. In the 'Connections' tree on the left, a connection named 'BD' is selected. In the 'Worksheet' tab of the main area, the following SQL command is entered:

```
--Gogoașa Petre-Cristian
drop view informatii_clienti;
```

The output window at the bottom shows the result of the execution:

```
View INFORMATII_CLIENTI dropped.
```

The status bar at the bottom right indicates the task completed in 0.067 seconds. The system tray shows icons for battery, signal, and date/time (9:21 PM, 1/11/2023).

drop view informatii_clienti;

➤ Să se creeze un index.

The screenshot shows the Oracle SQL Developer interface. In the 'Connections' tree on the left, a connection named 'BD' is selected. In the 'Worksheet' tab of the main area, the following SQL command is entered:

```
--Gogoașa Petre-Cristian
create index frizeri_informatii_publice
on frizeri(nume, prenume, nr_telefon);
```

The output window at the bottom shows the result of the execution:

```
Index FRIZERI_INFORMATII_PUBLICE created.
```

The status bar at the bottom right indicates the task completed in 0.079 seconds. The system tray shows icons for battery, signal, and date/time (9:26 PM, 1/11/2023).

create index frizeri_informatii_publice
on frizeri(nume, prenume, nr_telefon);

➤ Să se steargă indexul.

The screenshot shows the Oracle SQL Developer interface. In the top-left corner, there's a tree view titled 'Connections' showing a single connection named 'BD'. Below it is a 'Reports' section with several report types listed. The main workspace is a 'Worksheet' tab where the following SQL command is entered:

```
--Gogoașa Petre-Cristian  
drop index frizeri_informatii_publice;
```

Below the worksheet, the 'Script Output' tab displays the result of the command:

Index FRIZERI_INFORMATII_PUBLICE dropped.

At the bottom of the screen, the Windows taskbar shows the date and time as 1/11/2023 9:35 PM.

drop index frizeri_informatii_publice;

➤ Să se creeze un sinonim.

The screenshot shows the Oracle SQL Developer interface. The 'Connections' and 'Reports' sections are visible on the left. The 'Worksheet' tab contains the following SQL command:

```
--Gogoașa Petre-Cristian  
create synonym strada for locatii_1.strada;
```

The 'Script Output' tab shows the confirmation message:

Synonym STRADA created.

The bottom of the screen shows the Windows taskbar with the date and time as 1/11/2023 9:57 PM.

Create synonym strada for locatii_1.strada;

➤ Să se afișeze sinonimele utilizatorului.

The screenshot shows the Oracle SQL Developer interface. In the Connections tree on the left, a connection named 'BD' is selected. In the central 'Worksheet' tab, the following SQL code is run:

```
--Gogoașa Petre-Cristian
create synonym strada for locatii_l.strada;
select * from user_synonyms;
```

The 'Query Result' tab shows the output of the second query:

SYNONYM_NAME	TABLE_OWNER	TABLE_NAME	DB_LINK	ORIGIN_COH_ID
STRADA	LOCATII_L	STRADA	(null)	0

select * from user_synonyms;

➤ Să se șteargă sinonimul.

The screenshot shows the Oracle SQL Developer interface. In the Connections tree on the left, a connection named 'BD' is selected. In the central 'Worksheet' tab, the following SQL code is run:

```
--Gogoașa Petre-Cristian
drop synonym strada;
```

The 'Script Output' tab shows the error message:

```
Error report -
ORA-01031: insufficient privileges
01031. 00000 -  "insufficient privileges"
*Cause:  An attempt was made to perform a database operation without
         the necessary privileges.
*Action: Ask your database administrator or designated security
         administrator to grant you the necessary privileges
```

The 'Query Result' tab shows the results of the previous command:

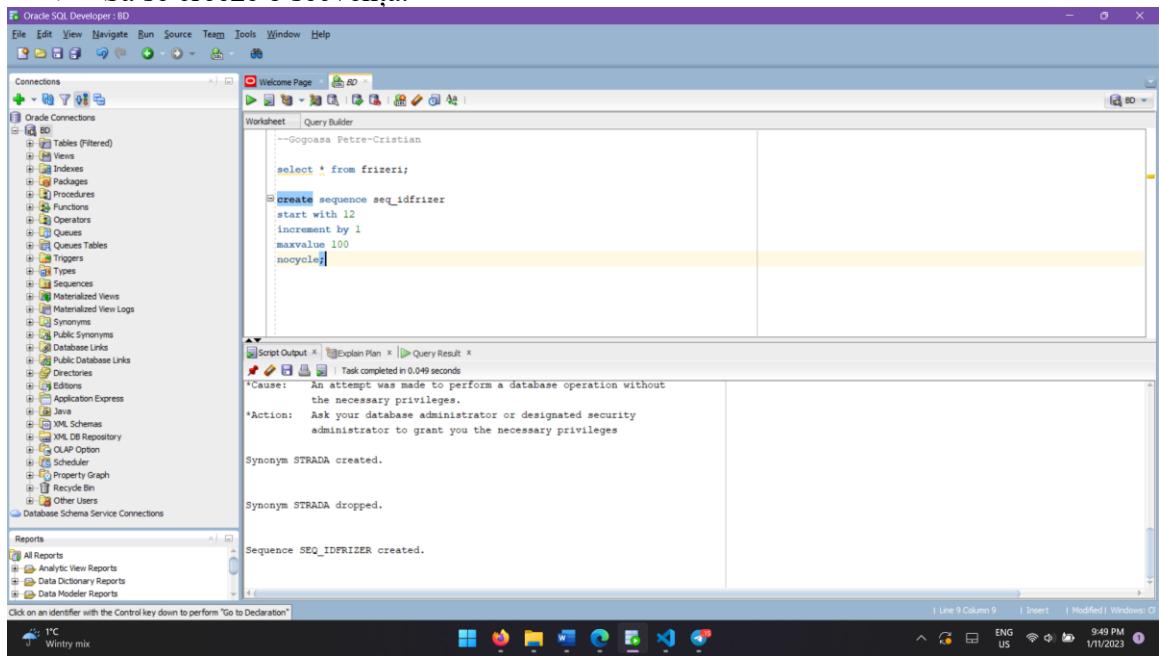
```
Synonym STRADA created.
```

And the result of the drop command:

```
Synonym STRADA dropped.
```

Drop synonym strada;

➤ Să se creeze o secvență.



The screenshot shows the Oracle SQL Developer interface. In the central workspace, a query is being run:

```
--Gogoașa Petre-Cristian
select * from frizeri;

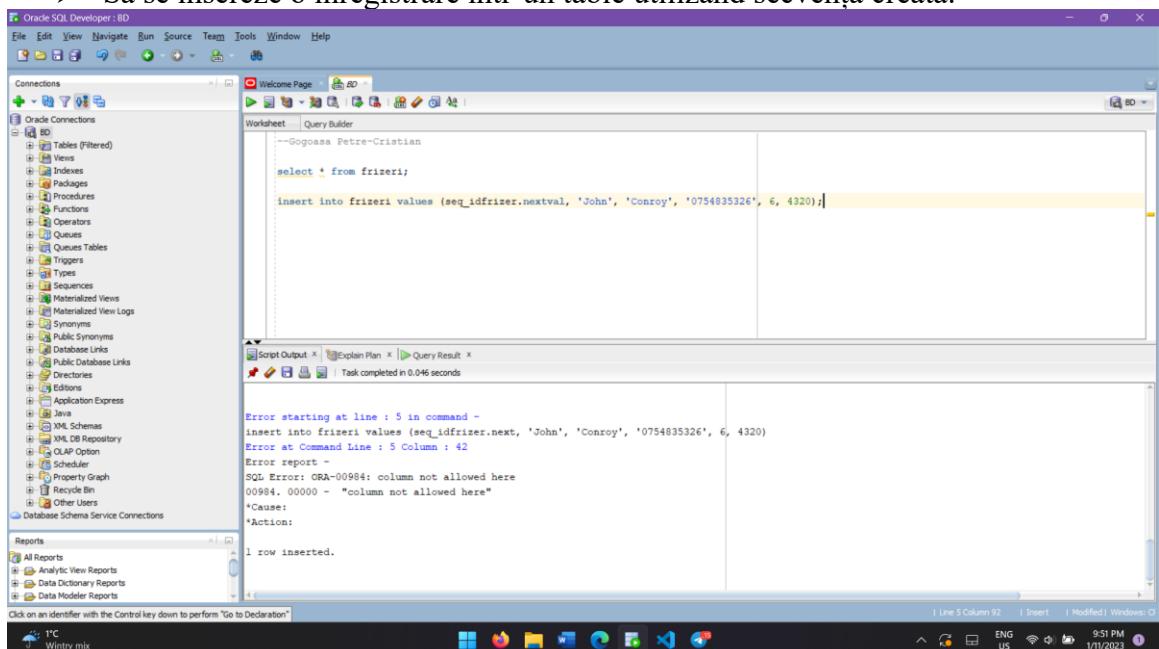
create sequence seq_idfrizer
start with 12
increment by 1
maxvalue 100
nocycle;
```

The output window shows the results of the sequence creation:

```
Sequence SEQ_IDFRIZER created.
```

```
create sequence seq_idfrizer
start with 12
increment by 1
maxvalue 100
nocycle;
```

➤ Să se insereze o înregistrare într-un table utilizând secvența creată.



The screenshot shows the Oracle SQL Developer interface. In the central workspace, a query is being run:

```
--Gogoașa Petre-Cristian
select * from frizeri;

insert into frizeri values (seq_idfrizer.nextval, 'John', 'Conroy', '0754835326', 6, 4320);
```

The output window shows the error message:

```
Error starting at line : 5 in command -
insert into frizeri values (seq_idfrizer.nextval, 'John', 'Conroy', '0754835326', 6, 4320)
Error at Command Line : 5 Column : 42
Error report -
SQL Error: ORA-00984: column not allowed here
00984. 00000 - "column not allowed here"
*Cause:
*Action:
```

```
insert into frizeri values (seq_idfrizer.nextval, 'John', 'Conroy', '0754835326', 6,
4320);
```

➤ Să se afișeze valoarea curentă a secvenței.

The screenshot shows the Oracle SQL Developer interface. In the 'Connections' tree on the left, a connection to 'BD' is selected. The 'Worksheet' tab in the center contains the following SQL code:

```
--Gogoașa Petre-Cristian
select * from frizeri;
select seq_idfrizer.currval from dual;
```

The 'Query Result' tab shows the output:

CURRVAL
12

At the bottom of the interface, the status bar displays: Line 5 Column 39 | Insert | Modified | Windows | ENG US | 9:52 PM | 1/11/2023.

select seq_idfrizer.currval from dual;

➤ Să se modifice pasul de incrementare al secvenței.

The screenshot shows the Oracle SQL Developer interface. In the 'Connections' tree on the left, a connection to 'BD' is selected. The 'Worksheet' tab in the center contains the following SQL code:

```
--Gogoașa Petre-Cristian
select * from frizeri;
alter sequence seq_idfrizer increment by 2;
```

The 'Script Output' tab shows the error message:

```
Error starting at line : 5 in command -
alter sequence seq_idfrizer increment by 2
Error report -
ORA-02289: sequence does not exist
02289 00000 - "sequence does not exist"
*Cause:  The specified sequence does not exist, or the user does
        not have the required privilege to perform this operation.
*Action: Make sure the sequence name is correct, and that you have
        the right to perform the desired operation on this sequence.
```

At the bottom of the interface, the status bar displays: Line 5 Column 44 | Insert | Modified | Windows | ENG US | 9:53 PM | 1/11/2023.

alter sequence seq_idfrizer increment by 2;

➤ Să se steargă secvența.

The screenshot shows the Oracle SQL Developer interface. In the top-left corner, there's a navigation pane titled "Connections" with a tree view of database objects under "BD". The "Tables (Filtered)" node is expanded, showing various table types like Tables, Views, Indexes, etc. In the center, the "Worksheet" tab is active, displaying a SQL script:

```
--Gogașa Petre-Cristian
select * from frizeri;

drop sequence seq_idfrizer;
```

Below the worksheet, the "Script Output" tab is open, showing the execution results:

```
Error report -
ORA-02289: sequence does not exist
02289. 00000 -  "sequence does not exist"
*Cause:  The specified sequence does not exist, or the user does
        not have the required privilege to perform this operation.
*Action: Make sure the sequence name is correct, and that you have
        the right to perform the desired operation on this sequence.

Sequence SEQ_IDFRIZER altered.

Sequence SEQ_IDFRIZER dropped.
```

The status bar at the bottom indicates the script was completed in 0.099 seconds. The system tray shows the date and time as 1/11/2023, 9:53 PM.

drop sequence seq_idfrizer;