

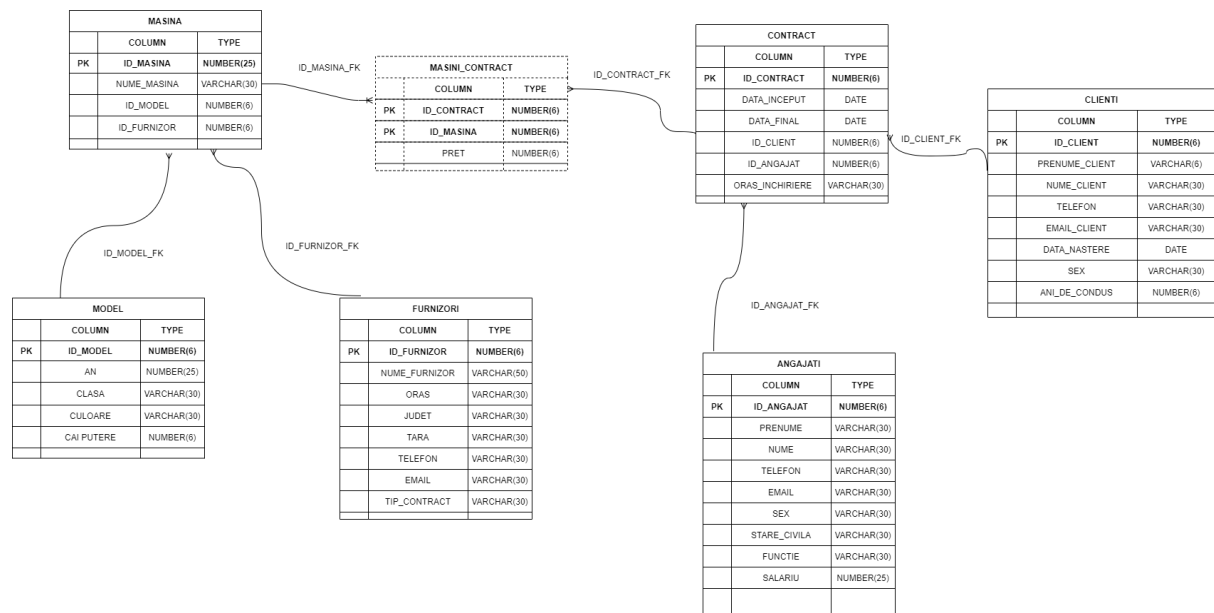
Baza de date companie de inchiriat masini, Mihai Alexandru 243.

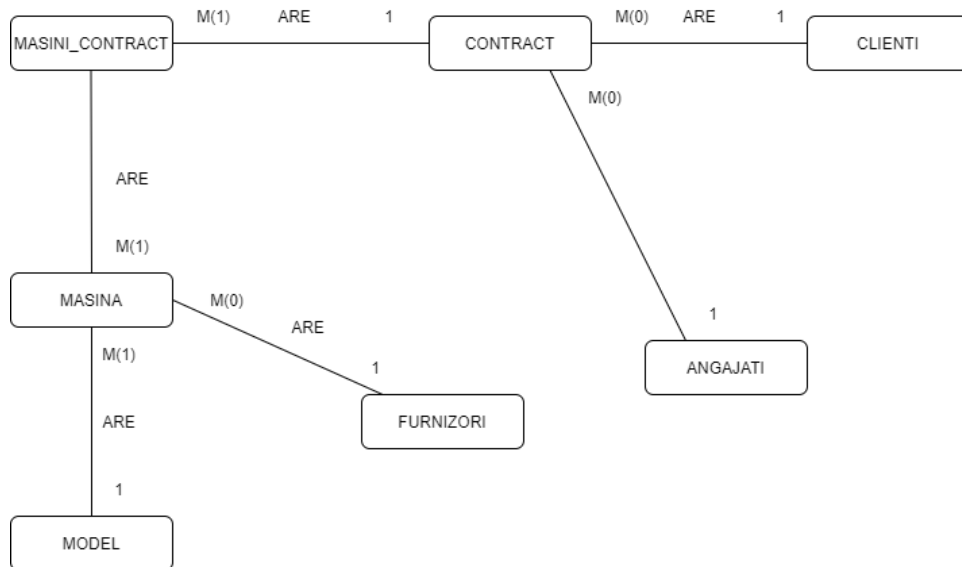
Baza de date este proiectata pentru o companie care se ocupa cu servicii de inchiriat masini.

Obiectivele bazei de date sunt :

- Sa creeze o baza de date capabila sa inregistreze un flux mediu de informatii si sa gestioneze aceste informatii in timp util;
- Sa tina o evidenta completa a companiei de inchiriat masini
- Sa minimizeze timpul alocat cautarii unor informatii despre inchirierile efectuate;
- Simplificarea misiunii angajatilor si ,totodata, a clientilor;

Baza de date este formata din 7 tabele aflate in Forma Normala 3.





WhatsApp PDF File viewer | Microsoft Teams Object Browser ada.drawio - diagrams.net

apex.oracle.com/pls/apex/f?p=4500:1001:108436799515106::FOCUS-REP,1001:OB_OBJECT_ID,OB_CURRENT_TYPE,OB_SCHEMA:106521134,TABLE,WKSP_ALEXANDRUMIHA123

APEX App Builder SQL Workshop Team Development App Gallery

Object Browser Schema WKSP_ALEXANDRUMIHA123

Tables

ANGAJATI
CLIENTI
CONTRACT
FURNIZORI
MASINA
MASINI_CONTRACT
MODEL

MASINA

Table Data Indexes Model Constraints Grants Statistics UI Defaults Triggers Dependencies SQL REST Sample Queries

Query Count Rows Insert Row Load Data

EDIT	ID_MASINA	NUME_MASINA	ID_MODEL	ID_FURNIZOR
	1	BMW SERIA 3	1	1
	2	BMW SERIA 5	2	1
	3	BMW X5	6	1
	4	BMW X4	9	1
	5	BMW X5	6	1
	6	Audi A4	5	2
	7	Audi Q7	6	2
	8	Opel Astra	5	8
	9	Dacia Duster	6	10
	10	BMW X5	6	1

Download

row(s) 1 - 10 of 10

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Type here to search

ENG 23:38 08/01/2021

The screenshot shows the Oracle APEX Object Browser interface. On the left, a sidebar lists database objects: ANGAJATI, CLIENTI, **CONTRACT**, FURNIZORI, MASINA, MASINI_CONTRACT, and MODEL. The main area displays the 'CONTRACT' table data. The table has columns: ID_CONTRACT, DATA_INCEPUT, DATA_FINAL, ID_CLIENT, ID_ANGAJAT, and ORAS_INCHIRIERE. It shows 6 rows of data. The interface includes a top navigation bar with 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'App Gallery'. The bottom status bar shows the user 'Alexandru Mihai' and the application version '20.2.0.00.20'.

EDIT	ID_CONTRACT	DATA_INCEPUT	DATA_FINAL	ID_CLIENT	ID_ANGAJAT	ORAS_INCHIRIERE
	1	11/17/2020	11/20/2020	1	1	Brasov
	2	11/10/2019	11/22/2019	2	1	Brasov
	3	05/07/2020	06/07/2020	7	2	Bucuresti
	4	12/21/2020	12/27/2020	3	3	Bucuresti
	5	10/12/2020	10/20/2020	5	4	Bucuresti
	6	05/07/2020	06/07/2020	6	5	Bucuresti

CREATE TABLE MODEL(

ID_MODEL Number(6) Primary key,

AN Number(6),

CLASA Varchar(30),

CULOARE Varchar(30),

CAI_PUTERE Number(6)

);

INSERT INTO MODEL

VALUES(1,2012,'Sedan','Alb',200);

INSERT INTO MODEL

VALUES(2,2013,'Sedan','Alb',210);

INSERT INTO MODEL

VALUES(3,2014,'Sedan','Negru',180);

INSERT INTO MODEL

VALUES(4,2020,'Sedan','Alb',160);

```

INSERT INTO MODEL
VALUES(5,2019,'Sedan','Albastru',170);

INSERT INTO MODEL
VALUES(6,2017,'Suv','Alb',210);

INSERT INTO MODEL
VALUES(7,2011,'Suv','Negru',190);

INSERT INTO MODEL
VALUES(8,2017,'Suv','Negru',200);

INSERT INTO MODEL
VALUES(9,2017,'Coupe','Alb',230);

INSERT INTO MODEL
VALUES(10,2020,'Coupe','Albastru',230);

```

```

CREATE TABLE FURNIZORI(
    ID_FURNIZOR Number(6) Primary key,
    NUME_FURNIZOR Varchar(30),
    ORAS Varchar(30),
    TARA Varchar(30),
    TELEFON VARCHAR(30),
    EMAIL Varchar(30),
    TIP_CONTRACT Varchar(30)
);

```

```

INSERT INTO FURNIZORI
VALUES(1,'BMW','Alexandria','Romania','587-99-6666','sdgsdg@car.com','Anual');

INSERT INTO FURNIZORI
VALUES(2,'Audi','Munchen','Germania','418-542-9988','sergfe@car.com','Anual');

```

```

INSERT INTO FURNIZORI
VALUES(3,'Mercedes','Roma','Italia','418-542-9988','sergfe@car.com','Anual');

INSERT INTO FURNIZORI
VALUES(4,'Auto','Ontario','Canada','418-542-4654','auto@car.com','Anual');

INSERT INTO FURNIZORI
VALUES(5,'Plus','Londra','Anglia','418-542-5675','plus@car.com','3 ani');

INSERT INTO FURNIZORI
VALUES(6,'abc','Mexico City','Mexico','4645-542-5675','plus@car.com','2 ani');

INSERT INTO FURNIZORI
VALUES(7,'Reanault','Bern','Distrito Federal','4645-542-567','frh@car.com','2 ani');

INSERT INTO FURNIZORI
VALUES(8,'Opel','Munich','Germania','7655-5454-5657','gdg@car.com','3 ani');

INSERT INTO FURNIZORI
VALUES(9,'Cars','Bucuresti','Romania','071233834','cars@car.com','2 ani');

INSERT INTO FURNIZORI
VALUES(10,'Dacia','Bucuresti','Romania','0712548343','Dacia@car.com','Anual');

```

```

CREATE TABLE MASINA(
    ID_MASINA Number(25) Primary key,
    NUME_MASINA Varchar(30),
    ID_MODEL Number(6) REFERENCES MODEL(ID_MODEL),
    ID_FURNIZOR NUMBER(6) REFERENCES FURNIZORI(ID_FURNIZOR)
);

```

```

INSERT INTO MASINA
VALUES(1,'BMW SERIA 3',1,1);

INSERT INTO MASINA
VALUES(2,'BMW SERIA 5',2,1);

```

```
INSERT INTO MASINA
VALUES(3,'BMW X5',6,1);

INSERT INTO MASINA
VALUES(4,'BMW X4',9,1);

INSERT INTO MASINA
VALUES(5,'BMW X5',6,1);

INSERT INTO MASINA
VALUES(6,'Audi A4',5,2);

INSERT INTO MASINA
VALUES(7,'Audi Q7',6,2);

INSERT INTO MASINA
VALUES(8,'Opel Astra',5,8);

INSERT INTO MASINA
VALUES(9,'Dacia Duster',6,10);

INSERT INTO MASINA
VALUES(10,'BMW X5',6,1);
```

```
CREATE TABLE ANGAJATI(
    ID_ANGAJAT Number(6) Primary key,
    PRENUME Varchar(50),
    NUME Varchar(50),
    TELEFON Varchar(30),
    EMAIL Varchar(50),
    SEX Varchar(30),
    STARE_CIVILA Varchar(30),
    FUNCTIE Varchar(30),
```

SALARIU Number(25)

);

INSERT INTO ANGAJATI

VALUES(1,'Mihai','Andrei','0723211239','mihai45@ss.com','M','Casatorit','Manager',2000);

INSERT INTO ANGAJATI

VALUES(2,'Christopher','Olsen','0115464564','Olsen@ss.com','M','Casatorit','Relatii Clienti',3000);

INSERT INTO ANGAJATI

VALUES(3,'Elizabeth','Bates','0879979877','Bates@ss.com','F','Casatorita','Relatii Clienti',3500);

INSERT INTO ANGAJATI

VALUES(4,'Ellen','Abel','0879989237','Abel@ss.com','F','Casatorita','Manager',3500);

INSERT INTO ANGAJATI

VALUES(5,'Jack','Livingston','0879675657','Livingston@ss.com','M','Casatorit','Sales Manager',20000);

INSERT INTO ANGAJATI

VALUES(6,'Charles','Johnson','0836346647','Johnson@ss.com','M','Casatorit','Relatii Clienti',15000);

INSERT INTO ANGAJATI

VALUES(7,'Winston','Taylor','084564567','Taylor@ss.com','M','Casatorit','Call operator',9000);

INSERT INTO ANGAJATI

VALUES(8,'Julia','Dellinger','065756567','Dellinger@ss.com','F','Casatorita','Manager',8000);

INSERT INTO ANGAJATI

VALUES(9,'Jennifer','Dilly','068936567','Dilly@ss.com','F','Casatorita','Manager',7000);

INSERT INTO ANGAJATI

VALUES(10,'Timothy','Higgins','068936567','Higgins@ss.com','M','Casatorita','Marketing Coordinator',15000);

INSERT INTO ANGAJATI

VALUES(11,'Hermann','Susan','546464554','Susan@ss.com','M','Casatorita','Web Designer',15000);

CREATE TABLE CLIENTI (

ID_CLIENT NUMBER(6) Primary key,

```
PRENUME_CLIENT VARCHAR(30),  
NUME_CLIENT VARCHAR(30),  
TELEFON VARCHAR(30),  
EMAIL_CLIENT VARCHAR(30),  
DATA_NASTERE DATE,  
SEX VARCHAR(30),  
ANI_DE_CONDUS NUMBER(6)  
);
```

```
INSERT INTO CLIENTI
```

```
VALUES(1,'Mihai','Daniel','0723218479','mihai@ss.com',TO_DATE('17/12/1997',  
'DD/MM/YYYY'),'M',2);
```

```
INSERT INTO CLIENTI
```

```
VALUES(2,'Vlascenco','Daniel','0723256779','Daniel@ss.com',TO_DATE('18/11/1996',  
'DD/MM/YYYY'),'M',4);
```

```
INSERT INTO CLIENTI
```

```
VALUES(3,'Lex','De Haan','5151234569','De Haan@ss.com',TO_DATE('17/05/1991',  
'DD/MM/YYYY'),'M',2);
```

```
INSERT INTO CLIENTI
```

```
VALUES(4,'Valli','Pataballa','5158899069','Pataballa@ss.com',TO_DATE('02/05/1989',  
'DD/MM/YYYY'),'M',8);
```

```
INSERT INTO CLIENTI
```

```
VALUES(5,'Laura','Bissot','0722334478','Laura@ss.com',TO_DATE('22/04/1988',  
'DD/MM/YYYY'),'F',5);
```

```
INSERT INTO CLIENTI
```

```
VALUES(6,'Mozhe','Atkinson','0777334478','Atkinson@ss.com',TO_DATE('24/09/1981',  
'DD/MM/YYYY'),'M',5);
```

```
INSERT INTO CLIENTI
```

```
VALUES(7,'John','Seo','0875436785','Seo@ss.com',TO_DATE('24/08/2000', 'DD/MM/YYYY'),'M',2);
```

```
INSERT INTO CLIENTI
```

```
VALUES(8,'John','Russell','7765325678','Russell@ss.com',TO_DATE('01/01/1999',  
'DD/MM/YYYY'),'M',2);
```

```
INSERT INTO CLIENTI
```



```
VALUES(9,'Alberto','Errazuriz','5567879667','Errazuriz@ss.com',TO_DATE('01/06/1999',
'DD/MM/YYYY'),'M',2);
```

```
INSERT INTO CLIENTI
```

```
VALUES(10,'Peter','Tucker','1876354678','Tucker@ss.com',TO_DATE('01/05/1988',
'DD/MM/YYYY'),'M',7);
```

```
CREATE TABLE CONTRACT(
```

```
    ID_CONTRACT Number(6) Primary key,
```

```
    DATA_INCEPUT DATE,
```

```
    DATA_FINAL DATE,
```

```
    ID_CLIENT Number(6) REFERENCES CLIENTI(ID_CLIENT),
```

```
    ID_ANGAJAT Number(6) REFERENCES ANGAJATI(ID_ANGAJAT),
```

```
    ORAS_INCHIRIERE Varchar(30)
```

```
);
```

```
INSERT INTO CONTRACT
```

```
VALUES(1,TO_DATE('17/11/2020', 'DD/MM/YYYY'),TO_DATE('20/11/2020',
'DD/MM/YYYY'),1,1,'Brasov');
```

```
INSERT INTO CONTRACT
```

```
VALUES(2,TO_DATE('10/11/2019', 'DD/MM/YYYY'),TO_DATE('22/11/2019',
'DD/MM/YYYY'),2,1,'Brasov');
```

```
INSERT INTO CONTRACT
```

```
VALUES(3,TO_DATE('07/05/2020', 'DD/MM/YYYY'),TO_DATE('07/06/2020',
'DD/MM/YYYY'),7,2,'Bucuresti');
```

```
INSERT INTO CONTRACT
```

```
VALUES(4,TO_DATE('21/12/2020', 'DD/MM/YYYY'),TO_DATE('27/12/2020',
'DD/MM/YYYY'),3,3,'Bucuresti');
```

```
INSERT INTO CONTRACT
```

```
VALUES(5,TO_DATE('12/10/2020', 'DD/MM/YYYY'),TO_DATE('20/10/2020',
'DD/MM/YYYY'),5,4,'Bucuresti');
```

```
INSERT INTO CONTRACT
```

```
VALUES(6,TO_DATE('07/05/2020', 'DD/MM/YYYY'),TO_DATE('07/06/2020',
'DD/MM/YYYY'),6,5,'Bucuresti');
```

```
CREATE TABLE MASINI_CONTRACT(
```

```
ID_MASINA Number(6),
```

```
ID_CONTRACT Number(6),
```

```
PRET Number(10),
```

```
CONSTRAINT MASINI_CONTRACT_ID PRIMARY KEY (ID_MASINA, ID_CONTRACT)
```

```
);
```

```
ALTER TABLE MASINI_CONTRACT
```

```
ADD FOREIGN KEY (ID_MASINA) REFERENCES MASINA(ID_MASINA);
```

```
ALTER TABLE MASINI_CONTRACT
```

```
ADD FOREIGN KEY (ID_CONTRACT) REFERENCES CONTRACT(ID_CONTRACT);
```

```
INSERT INTO MASINI_CONTRACT
```

```
VALUES(1,1,100);
```

```
INSERT INTO MASINI_CONTRACT
```

```
VALUES(2,2,200);
```

```
INSERT INTO MASINI_CONTRACT
```

```
VALUES(3,3,400);
```

```
INSERT INTO MASINI_CONTRACT
```

```
VALUES(1,4,250);
```

```
INSERT INTO MASINI_CONTRACT
```

```
VALUES(5,5,350);
```

```
INSERT INTO MASINI_CONTRACT
```

```
VALUES(1,6,400);
```

```
INSERT INTO MASINI_CONTRACT
```

```

VALUES(5,2,200);

INSERT INTO MASINI_CONTRACT

VALUES(7,5,350);

INSERT INTO MASINI_CONTRACT

VALUES(4,3,300);

INSERT INTO MASINI_CONTRACT

VALUES(9,6,200);

INSERT INTO MASINI_CONTRACT

VALUES(9,5,300);

INSERT INTO MASINI_CONTRACT

VALUES(4,4,250);

```

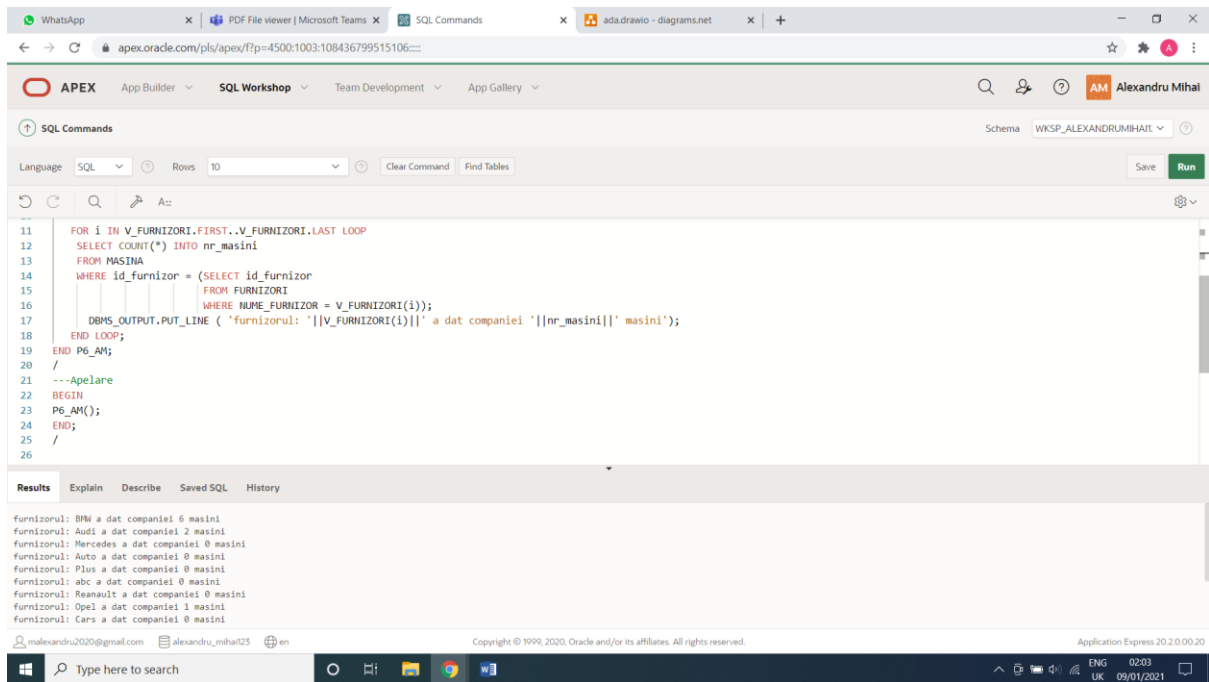
-----6) Afisati numarul de masini primite de la fiecare furnizor.

```

CREATE OR REPLACE PROCEDURE P6_AM
IS
    TYPE tablou_imbricat IS TABLE OF FURNIZORI.nume_furnizor%TYPE;
    V_FURNIZORI tablou_imbricat := tablou_imbricat();
    nr_masini NUMBER(4);
BEGIN
    SELECT nume_furnizor
    BULK COLLECT INTO V_FURNIZORI
    FROM FURNIZORI;

    FOR i IN V_FURNIZORI.FIRST..V_FURNIZORI.LAST LOOP
        SELECT COUNT(*) INTO nr_masini
        FROM MASINA
        WHERE id_furnizor = (SELECT id_furnizor
                            FROM FURNIZORI
                            WHERE NUME_FURNIZOR = V_FURNIZORI(i));
        DBMS_OUTPUT.PUT_LINE ( 'furnizorul: ' || V_FURNIZORI(i) || ' a dat companiei
        ' || nr_masini || ' masini');
    END LOOP;
END P6_AM;
/
---Apelare
BEGIN
P6_AM();
END;
/

```



-----7) Afisati salariile celor mai prost plătiți 5 angajați.

```

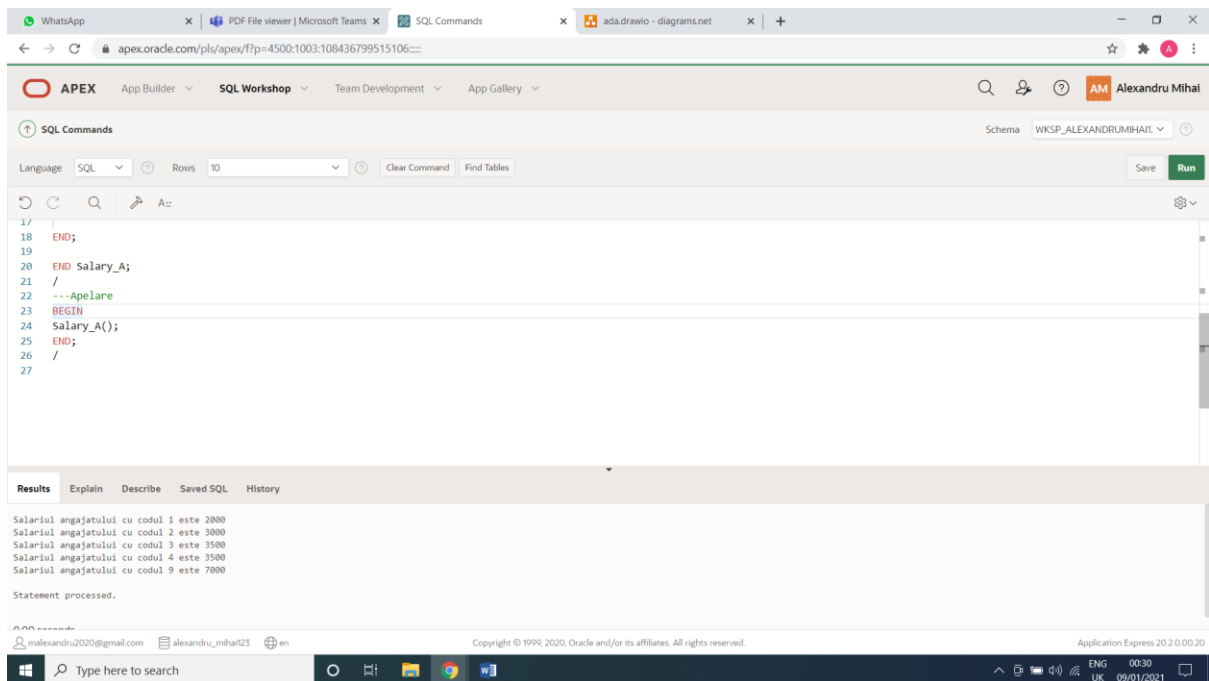
CREATE OR REPLACE PROCEDURE Salary_A
IS
BEGIN
DECLARE
    CURSOR e_employees is
        SELECT id_angajat,salariu
        FROM(SELECT id_angajat,salariu
              FROM angajati
              ORDER BY salariu)SUB
        WHERE ROWNUM <= 5;

BEGIN
    FOR i IN e_employees LOOP
        DBMS_OUTPUT.PUT_LINE ( 'Salariul angajatului cu codul '||i.id_angajat||
este '||i.salariu);
    END LOOP;

END;

END Salary_A;
/
---Apelare
BEGIN
Salary_A();
END;
/

```



----8) Functie care sa obtina numarul total de masini inchiriate de un client al carui cod (id) este specificat.

```

CREATE OR REPLACE FUNCTION f8_AM
(id_c CLIENTI.id_client%TYPE DEFAULT '1')
RETURN NUMBER IS nr Number(6);
exceptie EXCEPTION;
NR_CLIENTI NUMBER(6);
BEGIN
    SELECT COUNT (*) INTO NR_CLIENTI
    FROM CLIENTI
    WHERE ID_CLIENT = ID_C;
    IF NR_CLIENTI = 0 THEN RAISE exceptie;
    END IF;

    SELECT count(*) INTO nr
    FROM CLIENTI a JOIN CONTRACT c
    ON a.id_client = c.id_client
    JOIN MASINI_CONTRACT M
    ON c.id_contract = m.id_contract
    WHERE a.id_client=id_c;
RETURN nr;
EXCEPTION
WHEN exceptie THEN
RAISE_APPLICATION_ERROR(-20000,

```

```

'Nu exista clienti cu codul dat');
RAISE_APPLICATION_ERROR(-20002,'Alta eroare!');
END f8_AM;
/

BEGIN
DBMS_OUTPUT.PUT_LINE(f8_AM(2));
END;

```

The screenshot shows the APEX SQL Workshop interface. The SQL Commands tab is active, displaying the following code:

```

20 EXCEPTION
21 WHEN exceptie THEN
22 RAISE_APPLICATION_ERROR(-20000,
23 'Nu exista clienti cu codul dat');
24 RAISE_APPLICATION_ERROR(-20002,'Alta eroare!');
25 END f8_AM;
26 /
27
28 BEGIN
29 DBMS_OUTPUT.PUT_LINE(f8_AM(2));
30 END;

```

The Results tab shows the following output:

```

2
Statement processed.
0.01 seconds

```

The screenshot shows the APEX SQL Workshop interface. The SQL Commands tab is active, displaying the same code as the previous screenshot. The Results tab shows the following output:

```

ORA-20000: Nu exista clienti cu codul dat
ORA-06512: at "WKSP_ALEXANDRUMIHAI123.F8_AM", line 22
ORA-06512: at line 2
ORA-06512: at "SYS.DBMS_SQL", line 1721

1. BEGIN
2. DBMS_OUTPUT.PUT_LINE(f8_AM(99));
3. END;

```

----9) Afisati numarul clientilor care au inchiriat masini cu numarul de cai putere mai mare decat un numar specificat.

```
CREATE OR REPLACE PROCEDURE f9_AM
(nr_cai MODEL.cai_putere%TYPE DEFAULT 100)
IS nr_clienti Number(6);
BEGIN
    SELECT COUNT (*) INTO nr_clienti
    FROM clienti
    WHERE ID_CLIENT IN (SELECT ID_CLIENT
                        FROM CONTRACT c
                        JOIN MASINI_CONTRACT m
                        ON c.id_contract = m.id_contract
                        JOIN MASINA n
                        ON n.id_masina=m.id_masina
                        JOIN MODEL p
                        ON n.id_model = p.id_model
                        WHERE cai_putere > nr_cai);

    DBMS_OUTPUT.PUT_LINE('Numarul este ' || nr_clienti);

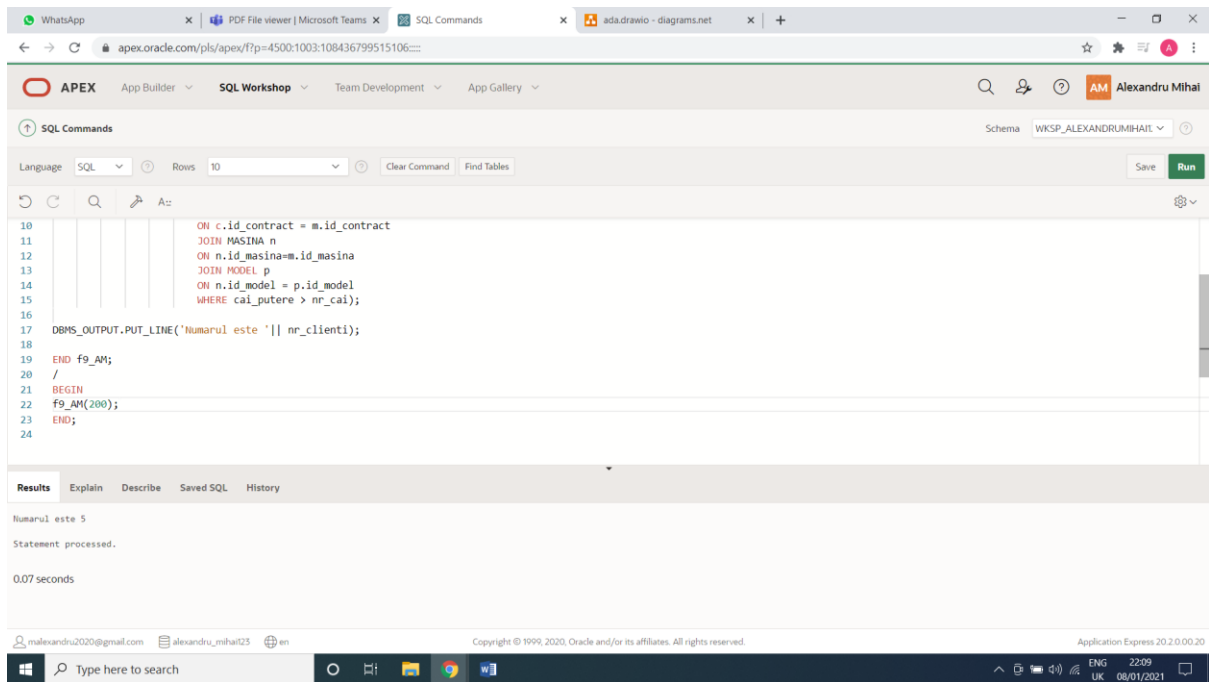
END f9_AM;
/
BEGIN
f9_AM(200);
END;
```

The screenshot displays the APEX SQL Workshop interface in a web browser. The 'SQL Commands' tab is active, showing the following SQL code:

```
10
11
12 JOIN MASINI_CONTRACT m
13 ON n.id_masina=m.id_masina
14 JOIN MODEL p
15 ON n.id_model = p.id_model
16 WHERE cai_putere > nr_cai);
17
18 DBMS_OUTPUT.PUT_LINE('Numarul este ' || nr_clienti);
19 END f9_AM;
20 /
21 BEGIN
22 f9_AM(250);
23 END;
```

The 'Results' tab is selected, showing the output: 'Numarul este 0'. Below this, it states 'Statement processed.' and '0.05 seconds'.

The interface includes a top navigation bar with 'APEX', 'App Builder', 'SQL Workshop', 'Team Development', and 'App Gallery'. The user 'Alexandru Mihai' is logged in. The bottom status bar shows the date '08/01/2021' and the time '22:07'.



10) ---- Definiti un declansator care sa introduca in tabelul TRIG_MESAJ un mesaj dupa ce in tabelul angajati a fost facuta o operatiune de tip LMD.

```
CREATE TABLE TRIG_MESAJ
(utilizator VARCHAR(30),
data DATE,
MESAJ VARCHAR(40));
DROP TABLE TRIG_MESAJ;
```

```
CREATE OR REPLACE TRIGGER trig10_AM
AFTER INSERT OR UPDATE OR DELETE ON ANGAJATI
BEGIN
    IF INSERTING THEN
        INSERT INTO TRIG_MESAJ
            VALUES (SYS.LOGIN_USER, SYSDATE, 'INSERT FACUT IN TABELUL ANGAJATI'
);
    ELSIF UPDATING THEN
        INSERT INTO TRIG_MESAJ
            VALUES (SYS.LOGIN_USER, SYSDATE, 'UPDATE FACUT IN TABELUL ANGAJATI'
);
    ELSIF DELETING THEN
        INSERT INTO TRIG_MESAJ
            VALUES (SYS.LOGIN_USER, SYSDATE, 'DELETE FACUT IN TABELUL ANGAJATI'
);
END IF;
END;
/
INSERT INTO ANGAJATI
```



```
VALUES(16, 'AA', 'FF', '0879F979877', 'SD@ss.com', 'F', 'Casatorita', 'Relatii Client  
i', 3500);
```

```
DROP TRIGGER trig10_AM;
```

The screenshot shows the Oracle APEX Object Browser interface. The left sidebar lists various database objects, with 'TRIG_MESAJ' selected. The main panel displays the details for the 'TRIG_MESAJ' trigger, including its schema (WKSP_ALEXANDRUMIHAI123) and a list of its triggers. The table below shows the trigger details:

Table	Data	Indexes	Model	Constraints	Grants	Statistics	UI Defaults	Triggers	Dependencies	SQL	REST	Sample Queries
Query	Count Rows	Insert Row	Load Data									
EDIT	UTILIZATOR	DATA	MESAJ									
	APEX_PUBLIC_USER	01/09/2021	INSERT FACUT IN TABELUL ANGAJATI									
	APEX_PUBLIC_USER	01/09/2021	DELETE FACUT IN TABELUL ANGAJATI									

The interface also includes a 'Download' button and a status bar at the bottom indicating 'row(s) 1 - 2 of 2'.

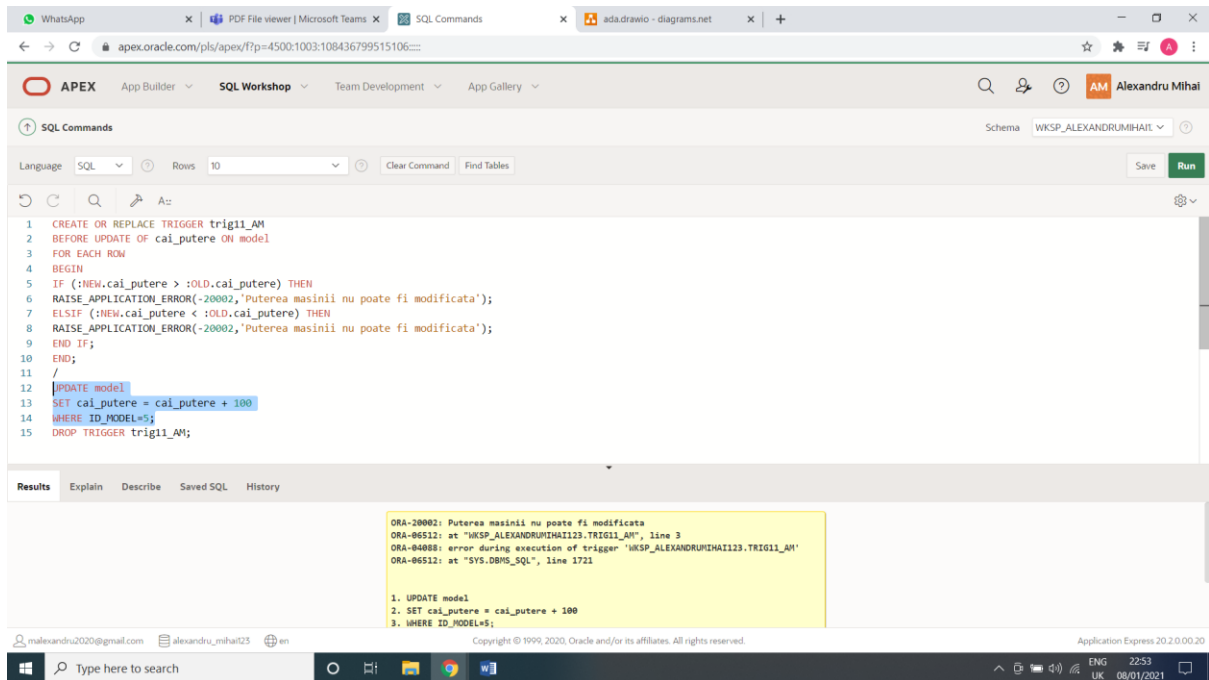
11) Definiți un declanșator prin care să nu se permita modificarea cailor putere ai unui model de masina.

```
CREATE OR REPLACE TRIGGER trig11_AM
BEFORE UPDATE OF cai_putere ON model
FOR EACH ROW
BEGIN
IF (:NEW.cai_putere > :OLD.cai_putere) THEN
RAISE_APPLICATION_ERROR(-20002, 'Puterea masinii nu poate fi modificata');
ELSIF (:NEW.cai_putere < :OLD.cai_putere) THEN
RAISE_APPLICATION_ERROR(-20002, 'Puterea masinii nu poate fi modificata');
END IF;
END;
/
UPDATE model
```

```

SET cai_putere = cai_putere + 100
WHERE ID_MODEL=100;
DROP TRIGGER trig11_AM;

```



12) Definiți un declanșator care sa interzica o actiune de tip Drop sau Alter asupra schemei.

```

CREATE OR REPLACE TRIGGER trig12_AM
BEFORE DROP OR ALTER ON SCHEMA
BEGIN
    RAISE_APPLICATION_ERROR (-20000, 'Cannot drop or alter object on schema');
END;
/
CREATE INDEX ind_AM ON ANGAJATI(ume);
DROP INDEX ind_AM;
DROP TRIGGER trig12_AM;

```

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Schema WKSP_ALEXANDRUMIHAI

SQL Commands

Language SQL Rows 10 Clear Command Find Tables Save Run

```
1 CREATE OR REPLACE TRIGGER trig12_AM
2 BEFORE DROP OR ALTER ON SCHEMA
3 BEGIN
4     RAISE_APPLICATION_ERROR (-20000, 'cannot drop or alter object on schema');
5 END;
6 /
7 CREATE INDEX ind_AM ON ANGAJATI(name);
8 DROP INDEX ind_AM;
9 DROP TRIGGER trig12_AM;
```

Results Explain Describe Saved SQL History

```
ORA-04089: error during execution of trigger 'WKSP_ALEXANDRUMIHAI123.TRIG12_AM'
ORA-06512: at 'SYS.WMV_DBMS_SQL_APEX_200200', line 626
ORA-06064: error occurred at recursive SQL level 3
ORA-20000: Cannot drop or alter object on schema
ORA-06512: at line 2
ORA-06512: at 'SYS.DBMS_SYS_SQL', line 1658
ORA-06512: at 'SYS.WMV_DBMS_SQL_APEX_200200', line 612
ORA-06512: at 'APEX_200200.WMV_FLOW_DYNAMIC_EXEC', line 1749
```

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