

PROIECT SGBD (GAMESTOP)

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Grupa: 1053

Seria: D

Profil: Informatică Economică RO

INTRODUCERE

Obiectiv: Gestionarea datelor cu ajutorul unei baze de date pentru un magazin care vinde jocuri video.

Descriere tabela:

Gamestop Functii => Contine functiile angajatilor firmei Gamestop si detalii despre acestea.

Gamestop Clienti => Contine date despre toti clientii firmei Gamestop

=> Restricții: clienti_pk (cheia primară a tabelului)
sex ck (sexul introdus poate fi doar sub forma M sau F)

Gamestop Angajati => Contine date despre toti angajatii firmei Gamestop

=> Restricții: angajati_pk (cheia primara a tabelului)
functie_fk (face referire la id_functie din tabela GAMESTOP_FUNCTII)
salariul_ck (salariul >= 2550)
comision_ck (comision >= 1.1)

Gamestop Produse => Contine toate produsele disponibile, vandute de firma Gamestop

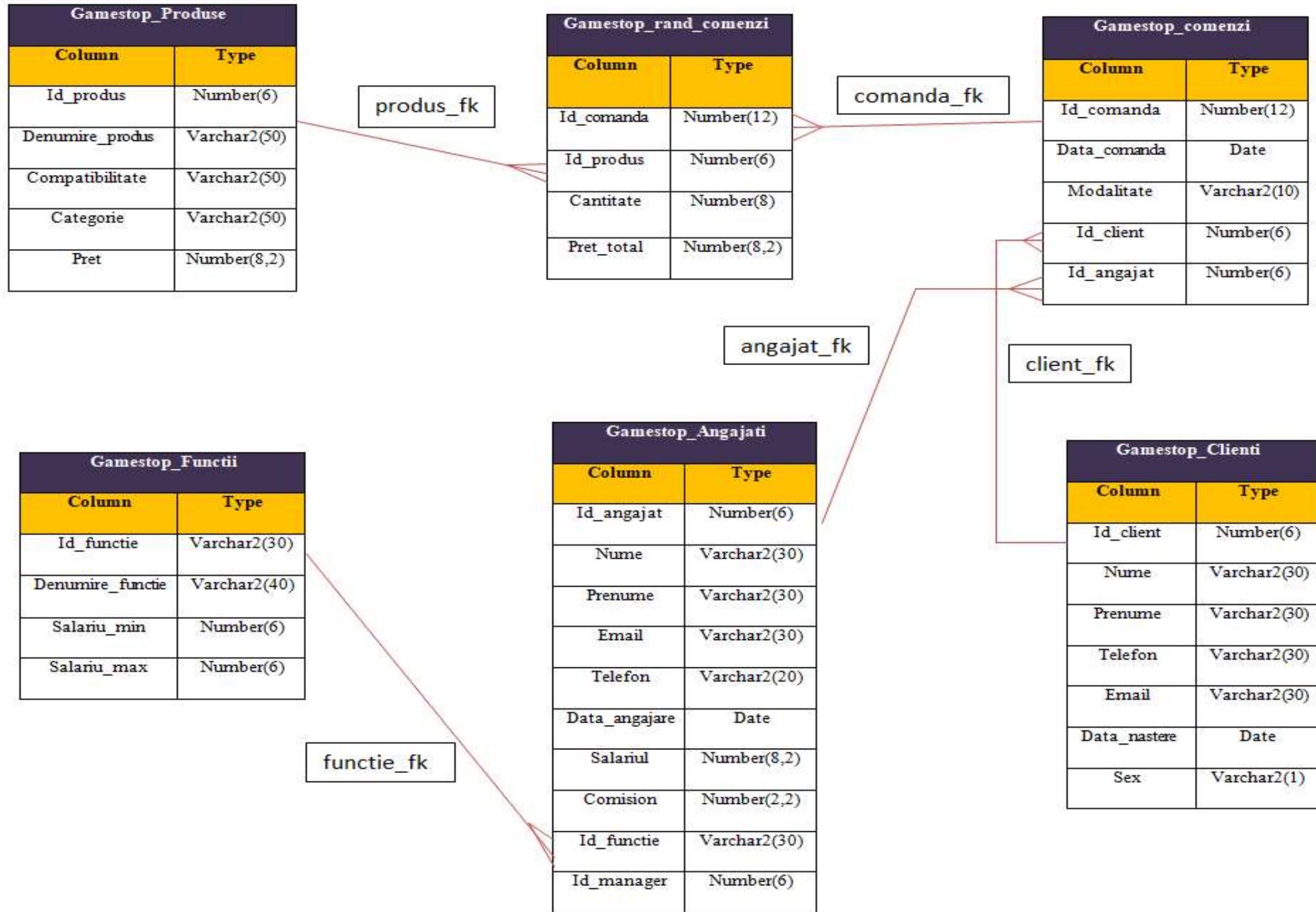
=> Restricții: produse pk (cheia primara a tabelului)

Gamestop Comenzi => Contine toate comenzile firmei Gamestop plasate de catre fiecare client.

=> Restricții: comenzi_pk (cheia primara a tabelului)
client_fk (face referire la id_client din tabela GAMESTOP_CLIENTI)
angajat_fk (face referire la id_angajat din tabela GAMESTOP_ANGAJATI)
modalitate_ck(verifica daca modalitatea de preluare a comenzii introduse este directa sau online)

Gamestop Rand Comenzi => Contine atat id-ul comenzi, cat si id-ul produsului pentru care este plasata fiecare comanda.

=> Restricții: rand_comenzi_pk (cheia primara a tabelului)
=> cheie primara compusa din id produs si id comanda



Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql

File Edit View Navigate Run Source Team Tools Window Help

Connections Worksheet Query Builder

```

1 -- Tema 1 Proiect )
2
3 -- 1) Sa se afiseze detalii despre un client anume si despre comanda pe care acesta a plasat-o. Pentru clientii care au 2
4 -- produse se va adauga inca 1 produs bonus in comanda, pentru clientii cu 3 produse se vor adauga 2 produse bonus in
5 -- comanda, iar pentru clientii care au comenzi mai mari se va oferi un voucher pe masura comenzi.
6
7 SET SERVEROUTPUT ON
8
9 DECLARE
10    v_id_client gamestop_clienti.id_client%type := &id;
11    v_nume gamestop_clienti.nume%type;
12    v_prenume gamestop_clienti.prenume%type;
13    v_id_comanda gamestop_comenzi.id_comanda%type;
14    v_cantitate gamestop_rand_comenzi.cantitate%type;
15    v_id_produs gamestop_produse.id_produs%type;
16    v_denumire_produs gamestop_produse.denumire_produs%type;
17    v_voucher number;
18
19 IF v_id_client between 1 and 10
20 THEN
21    SELECT nume, prenume INTO v_nume, v_prenume FROM gamestop_clienti WHERE id_client = v_id_client;
22    SELECT id_comanda INTO v_id_comanda FROM gamestop_comenzi WHERE id_client = v_id_client;
23    DBMS_OUTPUT.PUT_LINE('Clientul ' || v_nume || ' ' || v_prenume || ' are comanda ' || v_id_comanda);
24    SELECT cantitate, id_produs INTO v_cantitate, v_id_produs FROM gamestop_rand_comenzi WHERE id_comanda = v_id_comanda;
25    SELECT denumire_produs INTO v_denumire_produs FROM gamestop_produse WHERE id_produs = v_id_produs;
26    DBMS_OUTPUT.PUT_LINE('Comanda contine: ' || v_cantitate || ' bucati din produsul ' || v_denumire_produs);
27 ELSE
28    DBMS_OUTPUT.PUT_LINE('Clientul cu ID-ul introdus nu exista!!! ID-ul trebuie sa se afle in intervalul [1,10] !!!');
29 END IF;
30 IF v_cantitate = ?

```

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Dbms Output

Opened nodes (111); Saved files(0)

Line 87 Column 10 | Insert | Windows: C

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Connections Worksheet Query Builder

```
18 BEGIN
19 IF v_id_client between 1 and 10
20 THEN
21 SELECT nume, prenume INTO v_nume, v_prenume FROM gamestop_clienti WHERE id_client = v_id_client;
22 SELECT id_comanda INTO v_id_comanda FROM gamestop_comenzi WHERE id_client = v_id_client;
23 DBMS_OUTPUT.PUT_LINE('Clientul ' || v_nume || ' ' || v_prenume || ' are comanda ' || v_id_comanda);
24 SELECT cantitate, id_produs INTO v_cantitate, v_id_produs FROM gamestop_rand_comenzi WHERE id_comanda = v_id_comanda;
25 SELECT denumire_produs INTO v_denumire_produs FROM gamestop_produse WHERE id_produs = v_id_produs;
26 DBMS_OUTPUT.PUT_LINE('Comanda contine: ' || v_cantitate || ' bucati din produsul ' || v_denumire_produs);
27 ELSE
28 DBMS_OUTPUT.PUT_LINE('Clientul cu ID-ul introdus nu exista!!! ID-ul trebuie sa se afle in intervalul [1,10] !!!');
29 END IF;
30 IF v_cantitate = 2
31 THEN
32 v_cantitate := v_cantitate + 1;
33 DBMS_OUTPUT.PUT_LINE('Comanda + bonus: ' || v_cantitate || ' bucati din produsul ' || v_denumire_produs);
34 ELSIF v_cantitate = 3
35 THEN v_cantitate := v_cantitate + 2;
36 DBMS_OUTPUT.PUT_LINE('Comanda + bonus: ' || v_cantitate || ' bucati din produsul ' || v_denumire_produs);
37 ELSIF v_cantitate = 4
38 THEN
39 v_voucher := 300;
40 DBMS_OUTPUT.PUT_LINE('Valoare voucher bonus:' || v_voucher || ' LEI');
41 ELSIF v_cantitate = 5
42 THEN
43 v_voucher := 500;
44 DBMS_OUTPUT.PUT_LINE('Valoare voucher bonus:' || v_voucher || ' LEI');
45 END IF;
46 END;
47 /
```

Reports

- All Reports
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Dbms Output

Opened nodes (111); Saved files(0) | Line 87 Column 10 | Insert | Windows: C

Clientul Dona Andreea are comanda 9

Comanda contine: 5 bucati din produsul Counter-Strike: Global Offensive

Valoare voucher bonus:500 LEI

Oracle SQL Developer

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Connections

Worksheet Query Builder

```
49 -- 2) Sa se afiseze toti angajatii si functiile acestora iar pentru cei care sunt Client Helperi sa se acorde o marire de
50 -- salariu in valoare de 10%. Sa se afiseze modificarile aduse.
51
52 SET SERVEROUTPUT ON
53
54 DECLARE
55   v_id_angajat gamestop_angajati.id_angajat%type := 1;
56   v_nume gamestop_angajati.nume%type;
57   v_prenume gamestop_angajati.prenume%type;
58   v_salarial gamestop_angajati.salarial%type;
59   v_id_functie gamestop_functii.id_functie%type;
60   v_functie gamestop_functii.denumire_functie%type;
61 BEGIN
62   IF v_id_angajat between 1 and 14
63   THEN
64   LOOP
65     SELECT nume, prenume, salarial, id_functie INTO v_nume, v_prenume, v_salarial, v_id_functie
66     WHERE id_angajat = v_id_angajat;
67     SELECT denumire_functie INTO v_functie
68     FROM gamestop_functii
69     WHERE id_functie = v_id_functie;
70     DBMS_OUTPUT.PUT_LINE('Angajatul ' || v_nume || ' ' || v_prenume || ' are salarial ' || v_salarial || ' si functia ' || v_functie);
71     IF v_functie = 'Client Helper'
72     THEN
73       UPDATE gamestop_angajati
74       SET salarial = v_salarial * 1.1
75       WHERE id_angajat = v_id_angajat;
76       v_salarial := v_salarial * 1.1;
77     DBMS_OUTPUT.PUT_LINE('Noul salariu pentru ' || v_nume || ' ' || v_prenume || ' este ' || v_salarial || '.');
78   END IF;
79   v_id_angajat := v_id_angajat+1;
80   EXIT WHEN v_id_angajat > 14;
```

ORACLE DATABASE

Views

All Reports

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- User Defined Reports

Dbms Output

Opened nodes (111); Saved files(0)

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql

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Connections

+ FIRME
+ FUNCTII
+ GAMESTOP_ANGAJATI
 + ID_ANGAJAT
 + NUME
 + PRENUME
 + EMAIL
 + TELEFON
 + DATA_ANGAJARE
 + SALARIUL
 + COMISION
 + ID_FUNCTIE
 + ID_MANAGER
+ GAMESTOP_CLIENTI
+ GAMESTOP_COMENZI
+ GAMESTOP_FUNCTII
 + ID_FUNCTIE
 + DENUMIRE_FUNCTIE
 + SALARIU_MIN
 + SALARIU_MAX
+ GAMESTOP_PRODUSE
+ GAMESTOP_RAND_COMENZI
+ ISTORIC_FUNCTII
+ LOCATII
+ PRODUSE
+ RAND_COMENZI
+ REGUNI
+ SALARIATI
+ SALARIATI1
+ SALARIATI2
+ SALARIATI3
+ TARI

Views

Reports

All Reports
Analytic View Reports
Data Dictionary Reports
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OLAP Reports
TimesTen Reports
User Defined Reports

Worksheet Query Builder

```
58 v_salariul gamestop_angajati.salariul%type;
59 v_id_functie gamestop_functii.id_functie%type;
60 v_functie gamestop_functii.denumire_functie%type;
61 BEGIN
62 IF v_id_angajat between 1 and 14
63 THEN
64 LOOP
65 SELECT nume, prenume, salariul, id_functie INTO v_nume, v_prenume, v_salariul, v_id_functie FROM gamestop_angajati
66 WHERE id_angajat = v_id_angajat;
67 SELECT denumire_functie INTO v_functie FROM gamestop_functii WHERE id_functie = v_id_functie;
68 DBMS_OUTPUT.PUT_LINE('Angajatul ' || v_nume || ' ' || v_prenume || ' are salariul ' || v_salariul || ' si functia ' || v_functie);
69 IF v_functie = 'Client Helper'
70 THEN
71 UPDATE gamestop_angajati
72 SET salariul = v_salariul * 1.1
73 WHERE id_angajat = v_id_angajat;
74 v_salariul := v_salariul * 1.1;
75 DBMS_OUTPUT.PUT_LINE('Noul salariu pentru ' || v_nume || ' ' || v_prenume || ' este ' || v_salariul || '.');
76 END IF;
77 v_id_angajat := v_id_angajat+1;
78 EXIT WHEN v_id_angajat > 14;
79 END LOOP;
80 ELSIF v_id_angajat not between 1 and 14
81 THEN
82 DBMS_OUTPUT.PUT_LINE('Angajatul nu exista! ID-ul angajatilor se afla in intervalul [1,14]!');
83 END IF;
84 END;
85 /
86
87 ROLLBACK;
```

Dbms Output

Opened nodes (111); Saved files(0)

Line 56 Column 36 | Insert | Windows: C

Angajatul Ionel Teodor are salariul 52500 si functia CHIEF EXECUTIVE OFFICER.
Angajatul Alexandru Andrei are salariul 26250 si functia Vice President.
Angajatul Mafteiu Paul are salariul 21000 si functia Sales Manager.
Angajatul Cazan Nicoleta are salariul 13650 si functia Marketing Manager.
Angajatul Caragea Mihai are salariul 12600 si functia Finance Manager.
Angajatul Capatana Cornel are salariul 11550 si functia Accounting Manager.
Angajatul Modorea Alexandra are salariul 9450 si functia Sales Representative.
Angajatul Scorgea Mitica are salariul 8400 si functia Stock Manager.
Angajatul Gogea Elena are salariul 7350 si functia Shipping Manager.
Angajatul Marcel Alexandru are salariul 7800 si functia Stock Verifier.
Angajatul Dinu Mihaela are salariul 4375 si functia Cashier.
Angajatul Gorbaciov Stelian are salariul 4460 si functia Client Helper.
Noul salariu pentru Gorbaciov Stelian este 4906.
Angajatul Margaritar Maria are salariul 3720 si functia Client Helper.
Noul salariu pentru Margaritar Maria este 4092.
Angajatul Andrei Andra are salariul 3780 si functia Client Helper.
Noul salariu pentru Andrei Andra este 4158.

PL/SQL procedure successfully completed.

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
89 -- 3) Sa se afiseze detalii ( nume, prenume, email, telefon, salariul ) despre toti angajatii. Sa se acorde o marire
90 --      acelora care au salariul mai mic de 10.000 LEI. ( WHILE-LOOP-END LOOP )
91
92 SET SERVEROUTPUT ON
93
94 DECLARE
95   v_id_angajat gamestop_angajati.id_angajat%type := 1;
96   v_nume gamestop_angajati.nume%type;
97   v_prenume gamestop_angajati.prenume%type;
98   v_email gamestop_angajati.email%type;
99   v_telefon gamestop_angajati.telefon%type;
100  v_salariul gamestop_angajati.salariul%type;
101 BEGIN
102   WHILE v_id_angajat <= 14 LOOP
103     SELECT nume, prenume, email, telefon, salariul INTO v_nume, v_prenume, v_email, v_telefon, v_salariul FROM gamestop_angajati
104     WHERE id_angajat = v_id_angajat;
105     DBMS_OUTPUT.PUT_LINE('Angajatul: ' || v_nume || ' ' || v_prenume);
106     DBMS_OUTPUT.PUT_LINE('Email: ' || v_email);
107     DBMS_OUTPUT.PUT_LINE('Telefon: ' || v_telefon);
108     DBMS_OUTPUT.PUT_LINE('Salariul: ' || v_salariul || ' LEI');
109   IF v_salariul < 10000
110   THEN
111     UPDATE gamestop_angajati
112     SET salariul = v_salariul * 1.005
113     WHERE id_angajat = v_id_angajat;
114     v_salariul := v_salariul * 1.06;
115     DBMS_OUTPUT.PUT_LINE('Salariul majorat este acum de: ' || v_salariul);
116   END IF;
117   DBMS_OUTPUT.PUT_LINE('');

```

Reports

All Reports

- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Dbms Output Opened nodes (109); Saved files(0)

Line 121 Column 2 Insert Windows: C:\

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
115 DBMS_OUTPUT.PUT_LINE('Salariul majorat este acum de: ' || v_salariul || ' LEI');
116 END IF;
117 DBMS_OUTPUT.PUT_LINE('');
118 v_id_angajat := v_id_angajat+1;
119 END LOOP;
120 END;
121 /
122
123 ROLLBACK;
```

Script Output Task completed in 0,035 seconds

Angajatul: Capatana Cornel
Email: capatanac@gmail.com
Telefon: 0794.953.984
Salariul: 11550 LEI

Angajatul: Modorea Alexandra
Email: modoreaa@gmail.com
Telefon: 0732.267.456
Salariul: 9497.25 LEI
Salariul majorat este acum de: 10067.09 LEI

Angajatul: Scorgea Mitica
Email: scorgeam@gmail.com
Telefon: 0756.857.296
Salariul: 8442 LEI
Salariul majorat este acum de: 8948.52 LEI

Angajatul: Gogea Elena
Email: gogeaee@gmail.com

Dbms Output Opened nodes (109); Saved files(0) Line 121 Column 2 Insert Modified Windows: C

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Connections Oracle Database

Worksheet History ORACLE DATABASE

```
125 -- 4) Sa se afiseze toti angajatii care au salariul cuprins intre 3.000 si 7.000 de LEI. Pentru acestia sa se acorde
126 -- o marire in functie de comision. ( FOR-LOOP-END LOOP )
127
128 DECLARE
129   v_nume gamestop_angajati.nume%type;
130   v_prenume gamestop_angajati.prenume%type;
131   v_salarial gamestop_angajati.salarial%type;
132   v_comision gamestop_angajati.comision%type;
133   v_id_manager gamestop_angajati.id_manager%type;
134   v_id_min gamestop_angajati.id_angajat%type;
135   v_id_max gamestop_angajati.id_angajat%type;
136 BEGIN
137   SELECT min(id_angajat), max(id_angajat) INTO v_id_min, v_id_max
138   FROM gamestop_angajati
139   WHERE id_angajat BETWEEN 1 AND 14;
140   DBMS_OUTPUT.PUT_LINE('ID-ul minim este ' || v_id_min);
141   DBMS_OUTPUT.PUT_LINE('ID-ul maxim este ' || v_id_max);
142   DBMS_OUTPUT.PUT_LINE('');
143   FOR v_id_angajat IN v_id_min..v_id_max LOOP
144     SELECT nume, prenume, salariul, comision, id_manager INTO v_nume, v_prenume, v_salarial, v_comision, v_id_manager FROM gamestop
145     WHERE id_angajat = v_id_angajat;
146   IF v_salarial BETWEEN 3000 AND 7000
147     THEN
148       DBMS_OUTPUT.PUT_LINE('Nume: ' || v_nume);
149       DBMS_OUTPUT.PUT_LINE('Prenume: ' || v_prenume);
150       DBMS_OUTPUT.PUT_LINE('Salariul: ' || v_salarial || ' LEI');
151       DBMS_OUTPUT.PUT_LINE('Comision: ' || v_comision);
152     UPDATE gamestop_angajati
153     SET salariul = v_salarial + v_comision*v_salarial
```

Reports All Reports Analytic View Reports Data Dictionary Reports Data Modeler Reports OLAP Reports TimesTen Reports User Defined Reports

Dbms Output Saved: D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql | Line 126 Column 61 | Insert | Windows: C

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
136 BEGIN
137   SELECT min(id_angajat), max(id_angajat) INTO v_id_min, v_id_max
138   FROM gamestop_angajati
139   WHERE id_angajat BETWEEN 1 AND 14;
140   DBMS_OUTPUT.PUT_LINE('ID-ul minim este ' || v_id_min);
141   DBMS_OUTPUT.PUT_LINE('ID-ul maxim este ' || v_id_max);
142   DBMS_OUTPUT.PUT_LINE('');
143   FOR v_id_angajat IN v_id_min..v_id_max LOOP
144     SELECT nume, prenume, salariul, comision, id_manager INTO v_nume, v_prenume, v_salariul, v_comision, v_id_manager FROM gamestop_angajati
145     WHERE id_angajat = v_id_angajat;
146     IF v_salariul BETWEEN 3000 AND 7000
147     THEN
148       DBMS_OUTPUT.PUT_LINE('Nume: ' || v_nume);
149       DBMS_OUTPUT.PUT_LINE('Prenume: ' || v_prenume);
150       DBMS_OUTPUT.PUT_LINE('Salariul: ' || v_salariul || ' LEI');
151       DBMS_OUTPUT.PUT_LINE('Comision: ' || v_comision);
152       UPDATE gamestop_angajati
153         SET salariul = v_salariul + v_comision*v_salariul
154         WHERE id_angajat = v_id_angajat;
155       v_salariul := v_salariul + v_comision*v_salariul;
156       DBMS_OUTPUT.PUT_LINE('Salariul majorat: ' || v_salariul || ' LEI');
157       DBMS_OUTPUT.PUT_LINE('ID Manager: ' || v_id_manager);
158       DBMS_OUTPUT.PUT_LINE('');
159     END IF;
160   END LOOP;
161 END;
162 /
163
164 ROLLBACK;
```

Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Dbms Output Saved: D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql | Line 126 Column 61 | Insert | Windows: C:\Windows\system32\cmd.exe

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

Script Output Task completed in 0,051 seconds

ID-ul minim este 1
ID-ul maxim este 14

Nume: Dinu
Prenume: Mihaela
Salariul: 4375 LEI
Comision: .05
Salariul majorat: 4593.75 LEI
ID Manager: 5

Nume: Gorbaciov
Prenume: Stelian
Salariul: 4460 LEI
Comision: .05
Salariul majorat: 4683 LEI
ID Manager: 4

Nume: Margaritar
Prenume: Maria
Salariul: 3720 LEI
Comision: .6
Salariul majorat: 5952 LEI
ID Manager: 4

Nume: Andrei
Prenume: Andra
Salariul: 3780 LEI

Reports

All Reports

- Analytic View Reports
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- TimesTen Reports
- User Defined Reports

Dbms Output Saved: D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql Line 162 Column 2 Insert Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
165 -- 5) Sa se afiseze detalii despre toate jocurile si sa se creeze o categorisire pe baza pretului acestora.  
166 -- ( CASE-WHEN-THEN-ELSE-END CASE )  
167  
168  
169 DECLARE  
170 v_id_produs gamestop_produse.id_produs%type := 1;  
171 v_produs gamestop_produse.denumire_produs%TYPE;  
172 v_compatibilitate gamestop_produse.compatibilitate%type;  
173 v_categorie gamestop_produse.categorie%type;  
174 v_pret gamestop_produse.pret%type;  
175 BEGIN  
176 WHILE v_id_produs <= 10 LOOP  
177   SELECT denumire_produs, compatibilitate, categorie, pret INTO v_produs, v_compatibilitate, v_categorie, v_pret  
178   FROM gamestop_produse  
179   WHERE id_produs = v_id_produs;  
180   DBMS_OUTPUT.PUT_LINE('Produs: ' || v_produs);  
181   DBMS_OUTPUT.PUT_LINE('Compatibilitate: ' || v_compatibilitate);  
182   DBMS_OUTPUT.PUT_LINE('Categorie: ' || v_categorie);  
183 CASE  
184   WHEN v_pret BETWEEN 1 AND 50 THEN  
185     DBMS_OUTPUT.PUT_LINE('Pret: ' || v_pret || ' => ' || 'Ieftin');  
186   WHEN v_pret BETWEEN 51 AND 100 THEN  
187     DBMS_OUTPUT.PUT_LINE('Pret: ' || v_pret || ' => ' || 'Moderat');  
188   ELSE  
189     DBMS_OUTPUT.PUT_LINE('Pret: ' || v_pret || ' => ' || 'Scump');  
190   END CASE;  
191   DBMS_OUTPUT.PUT_LINE('');  
192   v_id_produs := v_id_produs+1;  
193 END LOOP;  
194 END;
```

Reports

All Reports

- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Dbms Output Opened nodes (109); Saved files(0)

Line 167 Column 39 | Insert | Windows: Cf

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql

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- GAMESTOP_COMENZI
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- ID_PRODUS
- DENUMIRE_PRODUS
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- CATEGORIE
- PRET
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- REGIUNI
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- SALARIAȚI3

Reports

All Reports

- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Script Output | Task completed in 0,052 seconds

Produs: Counter-Strike: Global Offensive
Compatibilitate: PC
Categorie: Shooter
Pret: 50 => Ieftin

Produs: American Truck Simulator
Compatibilitate: PC
Categorie: Simulation
Pret: 100 => Moderat

Produs: Among Us
Compatibilitate: PC|Mobile
Categorie: Social-Deduction
Pret: 50 => Ieftin

Produs: Dead By Daylight
Compatibilitate: PC|Mobile|Console
Categorie: Horror
Pret: 100 => Moderat

Produs: Euro Truck Simulator
Compatibilitate: PC
Categorie: Simulation
Pret: 100 => Moderat

Produs: Fall Guys
Compatibilitate: PC

Dbms Output | Opened nodes (109); Saved files(0) | Line 194 Column 5 | Insert | Windows: C

Oracle SQL Developer

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Connections

Worksheet History

ORACLE DATABASE

```
200 -- 6) Sa se afiseze delatii minime despre angajatii si comenzile intermediate de catre acestia. Sa se acorde un bonus
201 -- de cantitate in functie de fiecare comanda. ( CURSOR )
202
203 SET SERVEROUTPUT ON
204
205 DECLARE
206   CURSOR c6 IS SELECT ga.id_angajat, nume, prenume, gc.id_comanda, data_comanda, modalitate, id_client, cantitate, pret_total...
207   FROM gamestop_angajati ga, gamestop_comenzi gc, gamestop_rand_comenzi grc
208   WHERE ga.id_angajat = gc.id_angajat AND gc.id_comanda = grc.id_comanda;
209 BEGIN
210   FOR i IN c6
211   LOOP
212     DBMS_OUTPUT.PUT_LINE('ID Angajat: ' || i.id_angajat);
213     DBMS_OUTPUT.PUT_LINE('Nume: ' || i.nume);
214     DBMS_OUTPUT.PUT_LINE('Prenume: ' || i.prenume);
215     DBMS_OUTPUT.PUT_LINE('ID Comanda: ' || i.id_comanda);
216     DBMS_OUTPUT.PUT_LINE('Cantitate: ' || i.cantitate || ' bucati');
217     IF i.cantitate = 3 OR i.cantitate = 4
218     THEN
219       DBMS_OUTPUT.PUT_LINE('Produse bonus: 1 bucată');
220     ELSIF i.cantitate = 5
221     THEN
222       DBMS_OUTPUT.PUT_LINE('Produse bonus: 2 bucati');
223     END IF;
224     DBMS_OUTPUT.PUT_LINE('Pret: ' || i.pret_total || ' LEI');
225     DBMS_OUTPUT.PUT_LINE('Data: ' || i.data_comanda);
226     DBMS_OUTPUT.PUT_LINE('Modalitate: ' || i.modalitate);
227     DBMS_OUTPUT.PUT_LINE('ID Client: ' || i.id_client);
228     DBMS_OUTPUT.PUT_LINE('');
```

Reports

All Reports

- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Dbms Output Opened nodes (109); Saved files(0)

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 1 Proiect SGBD\Tema 1 Proiect SGBD.sql

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

Script Output Task completed in 0,035 seconds

ID Angajat: 7
Nume: Modorea
Prenume: Alexandra
ID Comanda: 5
Cantitate: 4 bucati
Produse bonus: 1 bucată
Pret: 100 LEI
Data: 16-DEC-22
Modalitate: online
ID Client: 9

ID Angajat: 7
Nume: Modorea
Prenume: Alexandra
ID Comanda: 6
Cantitate: 1 bucati
Pret: 300 LEI
Data: 20-DEC-22
Modalitate: online
ID Client: 3

ID Angajat: 3
Nume: Mafteiu
Prenume: Paul
ID Comanda: 7
Cantitate: 3 bucati
Produse bonus: 1 bucată

Reports

All Reports

Analytic View Reports

Data Dictionary Reports

Data Modeler Reports

OLAP Reports

TimesTen Reports

User Defined Reports

Dbms Output Opened nodes (109); Saved files(0)

Line 231 Column 2 Insert Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql

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```

1 -- Tema 2 Proiect )
2
3 -- 1) Afisati detalii legate de clientii care s-au nascut intr-un anumit an a carui valoare este citita de la tastatura.
4 -- Sa se acorde si un joc bonus pe baza unui anumit criteriu.
5 -- În cazul în care nu exista niciun client nascut în anul respectiv tratati exceptia si afisati mesajul 'Niciun client
6 -- nu s-a nascut în acest an!'. În cazul în care interogarea returneaza mai multe valori tratati exceptia si afisati
7 -- mesajul 'In anul respectiv s-au nascut mai multi clienti!'. In cazul celei de a doua erori, sa se afiseze toti clientii!
8 -- Tratati orice alta problema si afisati mesajul 'A aparut o alta problema!'
9
10 SET SERVEROUTPUT ON
11
12 DECLARE
13   v_an number := &an;
14   v_nume gamestop_clienti.nume%type;
15   v_prenume gamestop_clienti.prenume%type;
16   v_telefon gamestop_clienti.telefon%type;
17   v_email gamestop_clienti.email%type;
18   v_sex gamestop_clienti.sex%type;
19   CURSOR c1 IS SELECT nume, prenume, telefon, email, sex FROM gamestop_clienti WHERE EXTRACT(YEAR FROM data_nastere) = v_an;
20   BEGIN
21     DBMS_OUTPUT.PUT_LINE('');
22     SELECT nume, prenume, telefon, email, sex INTO v_nume, v_prenume, v_telefon, v_email, v_sex FROM gamestop_clienti
23     WHERE EXTRACT(YEAR FROM data_nastere) = v_an;
24     DBMS_OUTPUT.PUT_LINE('Client gasit: ');
25     DBMS_OUTPUT.PUT_LINE('');
26     DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || v_nume || ' ' || v_prenume);
27     DBMS_OUTPUT.PUT_LINE('Telefon: ' || v_telefon);
28     DBMS_OUTPUT.PUT_LINE('Email: ' || v_email);
29     DBMS_OUTPUT.PUT_LINE('Sex: ' || v_sex);
30   IF v_sex = 'M' THEN

```

Click on an identifier with the Control key down to perform "Go to Declaration"

Line 1 Column 20 | Insert | Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql

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- Materialized View Logs

Worksheet Query Builder

```
29 DBMS_OUTPUT.PUT_LINE('Sex: ' || v_sex);
30 IF v_sex = 'M' THEN
31     DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: CS:GO');
32 ELSE
33     DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: FALL GUYS');
34 END IF;
35 EXCEPTION
36 WHEN NO_DATA_FOUND THEN
37     DBMS_OUTPUT.PUT_LINE('Nu s-a nascut niciun client in anul ' || v_an || '!');
38 WHEN TOO_MANY_ROWS THEN
39     DBMS_OUTPUT.PUT_LINE('S-au nascut mai multi clienti in anul ' || v_an || '!');
40     DBMS_OUTPUT.PUT_LINE('Clientii respectivi sunt: ');
41     DBMS_OUTPUT.PUT_LINE('');
42 FOR i IN c1 LOOP
43     DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || i.nume || ' ' || i.prenume);
44     DBMS_OUTPUT.PUT_LINE('Telefon: ' || i.telefon);
45     DBMS_OUTPUT.PUT_LINE('Email: ' || i.email);
46     DBMS_OUTPUT.PUT_LINE('Sex: ' || i.sex);
47 IF i.sex = 'M' THEN
48     DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: CS:GO');
49 ELSE
50     DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: FALL GUYS');
51 END IF;
52 DBMS_OUTPUT.PUT_LINE('');
53 END LOOP;
54 WHEN OTHERS THEN
55     DBMS_OUTPUT.PUT_LINE('A aparut o alta problema!');
56     DBMS_OUTPUT.PUT_LINE(SQLERRM);
57 END;
58 /
```

Click on an identifier with the Control key down to perform "Go to Declaration"

Line 1 Column 20 | Insert | Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql

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Worksheet Query Builder

```
41    DBMS_OUTPUT.PUT_LINE('');
42    FOR i IN c1 LOOP
43        DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || i.nume || ' ' || i.prenume);
44        DBMS_OUTPUT.PUT_LINE('Telefon: ' || i.telefon);
45        DBMS_OUTPUT.PUT_LINE('Email: ' || i.email);
46        DBMS_OUTPUT.PUT_LINE('Sex: ' || i.sex);
47        IF i.sex = 'M' THEN
48            DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: CS:GO');
49        ELSE
50            DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: FALL GUYS');
51        END IF;
52        DBMS_OUTPUT.PUT_LINE('');
53    END LOOP;
54 WHEN OTHERS THEN
55     DBMS_OUTPUT.PUT_LINE('A aparut o alta problema!');
56     DBMS_OUTPUT.PUT_LINE(SQLERRM);
57 END;
58 /
```

Script Output x

Task completed in 12,808 seconds

Client gasit:

Nume si prenume: Zamfir Dorel
Telefon: 0745.586.068
Email: zamfird@gmail.com
Sex: M
Joc bonus la urmatoarea achizitie: CS:GO

PL/SQL procedure successfully completed.

Click on an identifier with the Control key down to perform "Go to Declaration"

| Line 58 Column 2 | Insert | Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql

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Connections

Worksheet Query Builder

```
41:     DBMS_OUTPUT.PUT_LINE('');
42:     FOR i IN c1 LOOP
43:         DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || i.nume || ' ' || i.prenume);
44:         DBMS_OUTPUT.PUT_LINE('Telefon: ' || i.telefon);
45:         DBMS_OUTPUT.PUT_LINE('Email: ' || i.email);
46:         DBMS_OUTPUT.PUT_LINE('Sex: ' || i.sex);
47:         IF i.sex = 'M' THEN
48:             DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: CS:GO');
49:         ELSE
50:             DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: FALL GUYS');
```

Script Output X | Task completed in 9,1 seconds

S-au nascut mai multi clienti in anul 1997!
Clientii respectivi sunt:

Nume si prenume: Marcel Ioan
Telefon: 0753.867.596
Email: marceli@gmail.com
Sex: M
Joc bonus la urmatoarea achizitie: CS:GO

Nume si prenume: Zmeura Cornelia
Telefon: 0798.054.984
Email: zmeurac@gmail.com
Sex: F
Joc bonus la urmatoarea achizitie: FALL GUYS

PL/SQL procedure successfully completed.

Click on an identifier with the Control key down to perform "Go to Declaration"

| Line 58 Column 2 | Insert | Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql

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Connections

Worksheet Query Builder

```
36 WHEN NO_DATA_FOUND THEN
37     DBMS_OUTPUT.PUT_LINE('Nu s-a nascut niciun client in anul ' || v_an || '!');
38 WHEN TOO_MANY_ROWS THEN
39     DBMS_OUTPUT.PUT_LINE('S-au nascut mai multi clienti in anul ' || v_an || '!');
40     DBMS_OUTPUT.PUT_LINE('Clientii respectivi sunt: ');
41     DBMS_OUTPUT.PUT_LINE('');
42 FOR i IN c1 LOOP
43     DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || i.nume || ' ' || i.prenume);
44     DBMS_OUTPUT.PUT_LINE('Telefon: ' || i.telefon);
45     DBMS_OUTPUT.PUT_LINE('Email: ' || i.email);
46     DBMS_OUTPUT.PUT_LINE('Sex: ' || i.sex);
47     IF i.sex = 'M' THEN
48         DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: CS:GO');
49     ELSE
50         DBMS_OUTPUT.PUT_LINE('Joc bonus la urmatoarea achizitie: FALL GUYS');
51     END IF;
52     DBMS_OUTPUT.PUT_LINE('');
53 END LOOP;
54 WHEN OTHERS THEN
55     DBMS_OUTPUT.PUT_LINE('A aparut o alta problema!');
56     DBMS_OUTPUT.PUT_LINE(SQLERRM);
57 END;
```

Script Output x | Task completed in 30,755 seconds

Nu s-a nascut niciun client in anul 1992!

PL/SQL procedure successfully completed.

Click on an identifier with the Control key down to perform "Go to Declaration"

Line 58 Column 2 | Insert | Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql

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- GAMESTOP_COMENZI
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 - DATA_COMANDA
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 - ID_CLIENT
 - ID_ANGAJAT
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SQL Worksheet History

Worksheet Query Builder

```
60 -- 2) Adaugati in tabela comenzi o noua comanda cu ID-ul si modalitatea introduse de la tastatura!
61 -- Primul test -> ID DEJA EXISTENT!
62 -- Al doilea test -> Modalitate gresita!
63 -- Al treilea test -> Informatii insuficiente ( ENTER NULL pe oricare dintre valori ).
64 -- Tratati aceste situatii afisand cate un mesaj corespunzator, precum si mesajul erorii generate:
65
66 DECLARE
67   v_id gamestop_comenzi.id_comanda%type := &id;
68   v_modalitate gamestop_comenzi.modalitate%type := '&modalitate';
69   exceptie_id EXCEPTION;
70   PRAGMA EXCEPTION_INIT(exceptie_id, -00001);
71   exceptie_modalitate1 EXCEPTION;
72   PRAGMA EXCEPTION_INIT(exceptie_modalitate1, -02290);
73   exceptie_modalitate2 EXCEPTION;
74   PRAGMA EXCEPTION_INIT(exceptie_modalitate2, -01400);
75 BEGIN
76   DBMS_OUTPUT.PUT_LINE('');
77   INSERT INTO gamestop_comenzi(id_comanda, modalitate)
78     VALUES(v_id, v_modalitate);
79 EXCEPTION
80   WHEN exceptie_id THEN
81     DBMS_OUTPUT.PUT_LINE('Exista deja o comanda cu acelasi ID!');
82     DBMS_OUTPUT.PUT_LINE(SQLERRM);
83   WHEN exceptie_modalitate1 THEN
84     DBMS_OUTPUT.PUT_LINE('Modalitatea poate fi doar direct/online!');
85   WHEN exceptie_modalitate2 THEN
86     DBMS_OUTPUT.PUT_LINE('Nu ati furnizat suficiente informatii!');
87     DBMS_OUTPUT.PUT_LINE(SQLERRM);
88 END;
```

Saved: D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql | Line 89 Column 2 | Insert | Modified | Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
68 v_modalitate gamestop_comenzi.modalitate%type := '&modalitate';
69 exceptie_id EXCEPTION;
70 PRAGMA EXCEPTION_INIT(exceptie_id, -00001);
71 exceptie_modalitate1 EXCEPTION;
72 PRAGMA EXCEPTION_INIT(exceptie_modalitate1, -02290);
73 exceptie_modalitate2 EXCEPTION;
74 PRAGMA EXCEPTION_INIT(exceptie_modalitate2, -01400);
75 BEGIN
76 DBMS_OUTPUT.PUT_LINE('');
77 INSERT INTO gamestop_comenzi(id_comanda, modalitate)
      VALUES(v_id, v_modalitate);
78 EXCEPTION
79 WHEN exceptie_id THEN
80     DBMS_OUTPUT.PUT_LINE('Exista deja o comanda cu acelasi ID!');
81     DBMS_OUTPUT.PUT_LINE(SQLERRM);
82 WHEN exceptie_modalitate1 THEN
83     DBMS_OUTPUT.PUT_LINE('Modalitatea poate fi doar direct/online!');
84 WHEN exceptie_modalitate2 THEN
85     DBMS_OUTPUT.PUT_LINE('Nu ati furnizat suficiente informatii!');
86     DBMS_OUTPUT.PUT_LINE(SQLERRM);
87 END;
88 /
89 /
```

Script Output Task completed in 11,152 seconds

Exista deja o comanda cu acelasi ID!
ORA-00001: unique constraint (IONELT_53.COMENZI_PK) violated

PL/SQL procedure successfully completed.

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql

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Worksheet Query Builder

ORACLE DATABASE

```
71 exceptie_modalitate1 EXCEPTION;
72 PRAGMA EXCEPTION_INIT(exceptie_modalitate1, -02290);
73 exceptie_modalitate2 EXCEPTION;
74 PRAGMA EXCEPTION_INIT(exceptie_modalitate2, -01400);
75 BEGIN
76 DBMS_OUTPUT.PUT_LINE('');
77 INSERT INTO gamestop_comenzi(id_comanda, modalitate)
    VALUES(v_id, v_modalitate);
78 EXCEPTION
79 WHEN exceptie_id THEN
80     DBMS_OUTPUT.PUT_LINE('Exista deja o comanda cu acelasi ID!');
81     DBMS_OUTPUT.PUT_LINE(SQLERRM);
82 WHEN exceptie_modalitate1 THEN
83     DBMS_OUTPUT.PUT_LINE('Modalitatea poate fi doar direct/online!');
84     DBMS_OUTPUT.PUT_LINE(SQLERRM);
85 WHEN exceptie_modalitate2 THEN
86     DBMS_OUTPUT.PUT_LINE('Nu ati furnizat suficiente informatii!');
87     DBMS_OUTPUT.PUT_LINE(SQLERRM);
88 END;
89
90 /
```

Script Output X

Task completed in 9,517 seconds

Modalitatea poate fi doar direct/online!
ORA-02290: check constraint (IONELT_53.MODALITATE_CK) violated

PL/SQL procedure successfully completed.

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 2 Proiect SGBD\Tema 2 Proiect SGBD.sql

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
71 exceptie_modalitate1 EXCEPTION;
72 PRAGMA EXCEPTION_INIT(exceptie_modalitate1, -02290);
73 exceptie_modalitate2 EXCEPTION;
74 PRAGMA EXCEPTION_INIT(exceptie_modalitate2, -01400);
75 BEGIN
76 DBMS_OUTPUT.PUT_LINE('');
77 INSERT INTO gamestop_comenzi(id_comanda, modalitate)
    VALUES(v_id, v_modalitate);
78 EXCEPTION
79 WHEN exceptie_id THEN
80     DBMS_OUTPUT.PUT_LINE('Exista deja o comanda cu acelasi ID!');
81     DBMS_OUTPUT.PUT_LINE(SQLERRM);
82 WHEN exceptie_modalitate1 THEN
83     DBMS_OUTPUT.PUT_LINE('Modalitatea poate fi doar direct/online!');
84     DBMS_OUTPUT.PUT_LINE(SQLERRM);
85 WHEN exceptie_modalitate2 THEN
86     DBMS_OUTPUT.PUT_LINE('Nu ati furnizat suficiente informatii!');
87     DBMS_OUTPUT.PUT_LINE(SQLERRM);
88 END;
89 /
90 /
```

Script Output | Task completed in 9,868 seconds

Nu ati furnizat suficiente informatii!
ORA-01400: cannot insert NULL into ("IONELT_53"."GAMESTOP_COMENZI"."MODALITATE")

PL/SQL procedure successfully completed.

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Worksheet Query Builder

```
91
92 -- 3) Adaugati un nou produs si afisati un mesaj de confirmare. Tratati cu ajutorul unei exceptii situatiile in care acest
93 -- produs exista deja ( actualizand-ul de asemenea ), ori daca apar alte tipuri de erori, afisand mesaje corespunzatoare.
94
95 DECLARE
96   v_id gamestop_produse.id_produs%type := &id;
97   v_denumire gamestop_produse.denumire_produs%type := '&denumire_produs';
98   v_compatibilitate gamestop_produse.compatibilitate%type := '&compatibilitate';
99   v_categorie gamestop_produse.categorie%type := '&categorie';
100  v_pret gamestop_produse.pret%type := &pret;
101  exceptie_id EXCEPTION;
102  PRAGMA EXCEPTION_INIT(exceptie_id, -00001);
103 BEGIN
104   DBMS_OUTPUT.PUT_LINE('');
105   INSERT INTO gamestop_produse(id_produs, denumire_produs, compatibilitate, categorie, pret)
106     VALUES (v_id, v_denumire, v_compatibilitate, v_categorie, v_pret);
107   DBMS_OUTPUT.PUT_LINE('A fost adaugat produsul: ');
108   DBMS_OUTPUT.PUT_LINE('ID Produs: ' || v_id);
109   DBMS_OUTPUT.PUT_LINE('Denumire produs: ' || v_denumire);
110   DBMS_OUTPUT.PUT_LINE('Compatibilitate: ' || v_compatibilitate);
111   DBMS_OUTPUT.PUT_LINE('Categorie: ' || v_categorie);
112   DBMS_OUTPUT.PUT_LINE('Pret: ' || v_pret);
113 EXCEPTION
114 WHEN exceptie_id THEN
115   DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul ' || v_id || ' exista deja!');
116   DBMS_OUTPUT.PUT_LINE(SQLERRM);
117   UPDATE gamestop_produse
118     SET denumire_produs = v_denumire, compatibilitate = v_compatibilitate, categorie = v_categorie, pret = v_pret
119     WHERE id_produs = v_id;
120   DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul' || v_id || ' a fost actualizat!');
```

Opened nodes (4); Saved files(0) | Line 129 Column 35 | Insert | Windows: C

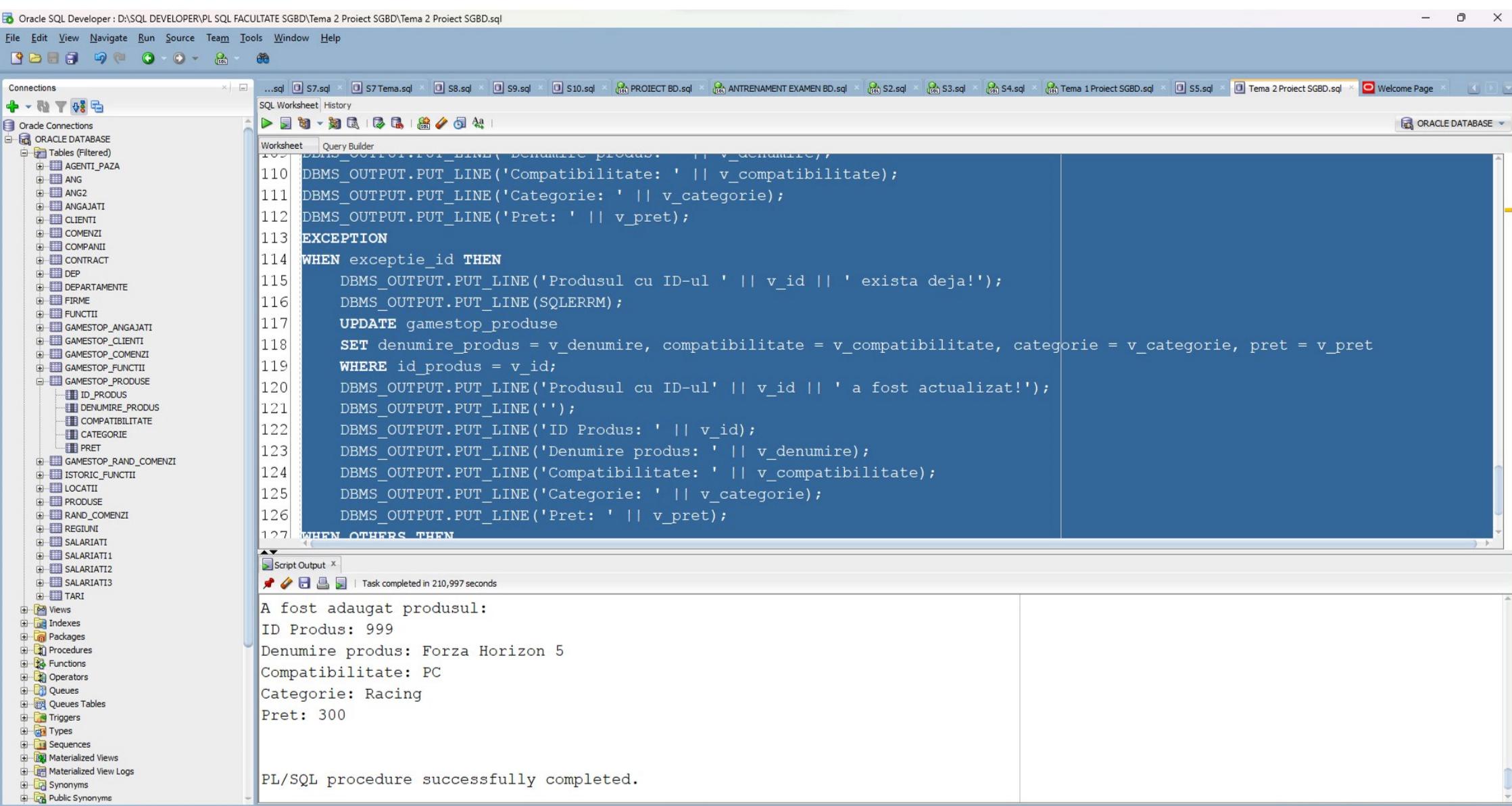
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Worksheet Query Builder

```
102 PRAGMA EXCEPTION_INIT(exceptie_id, -00001);
103 BEGIN
104 DBMS_OUTPUT.PUT_LINE('');
105 INSERT INTO gamestop_produse(id_produs, denumire_produs, compatibilitate, categorie, pret)
106     VALUES (v_id, v_denumire, v_compatibilitate, v_categorie, v_pret);
107 DBMS_OUTPUT.PUT_LINE('A fost adaugat produsul: ');
108 DBMS_OUTPUT.PUT_LINE('ID Produs: ' || v_id);
109 DBMS_OUTPUT.PUT_LINE('Denumire produs: ' || v_denumire);
110 DBMS_OUTPUT.PUT_LINE('Compatibilitate: ' || v_compatibilitate);
111 DBMS_OUTPUT.PUT_LINE('Categorie: ' || v_categorie);
112 DBMS_OUTPUT.PUT_LINE('Pret: ' || v_pret);
113 EXCEPTION
114 WHEN exceptie_id THEN
115     DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul ' || v_id || ' exista deja!');
116     DBMS_OUTPUT.PUT_LINE(SQLERRM);
117     UPDATE gamestop_produse
118         SET denumire_produs = v_denumire, compatibilitate = v_compatibilitate, categorie = v_categorie, pret = v_pret
119         WHERE id_produs = v_id;
120     DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul' || v_id || ' a fost actualizat!');
121     DBMS_OUTPUT.PUT_LINE('');
122     DBMS_OUTPUT.PUT_LINE('ID Produs: ' || v_id);
123     DBMS_OUTPUT.PUT_LINE('Denumire produs: ' || v_denumire);
124     DBMS_OUTPUT.PUT_LINE('Compatibilitate: ' || v_compatibilitate);
125     DBMS_OUTPUT.PUT_LINE('Categorie: ' || v_categorie);
126     DBMS_OUTPUT.PUT_LINE('Pret: ' || v_pret);
127 WHEN OTHERS THEN
128     DBMS_OUTPUT.PUT_LINE('A aparut o alta problema!');
129     DBMS_OUTPUT.PUT_LINE(SQLERRM);
130 END;
131 /
```



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Worksheet Query Builder

```
114 WHEN exceptie_id THEN
115     DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul ' || v_id || ' exista deja!');
116     DBMS_OUTPUT.PUT_LINE(SQLERRM);
117     UPDATE gamestop_produse
118     SET denumire_produs = v_denumire, compatibilitate = v_compatibilitate, categorie = v_categorie, pret = v_pret
119     WHERE id_produs = v_id;
120     DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul' || v_id || ' a fost actualizat!');
121     DBMS_OUTPUT.PUT_LINE('');
122     DBMS_OUTPUT.PUT_LINE('ID Produs: ' || v_id);
123     DBMS_OUTPUT.PUT_LINE('Denumire produs: ' || v_denumire);
124     DBMS_OUTPUT.PUT_LINE('Compatibilitate: ' || v_compatibilitate);
125     DBMS_OUTPUT.PUT_LINE('Categorie: ' || v_categorie);
126     DBMS_OUTPUT.PUT_LINE('Pret: ' || v_pret);
```

Script Output X

Task completed in 48,856 seconds

Produsul cu ID-ul 999 exista deja!
ORA-00001: unique constraint (IONELT_53.PRODUSE_PK) violated
Produsul cu ID-ul999 a fost actualizat!

ID Produs: 999
Denumire produs: Forza Horizon 6
Compatibilitate: XBOX
Categorie: Racing
Pret: 500

PL/SQL procedure successfully completed.

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SQL Worksheet History

Worksheet Query Builder

```

132
133 -- 4) Sa se acorde o marire de salariu unui angajat al carui ID este citit de la tastatura si sa fie afisat un mesaj
134 -- de confirmare. Sa fie tratata situatia in care acest angajat nu este gasit in baza de date, afisand un mesaj corespunzator
135
136 select * from gamestop_angajati;
137 rollback;
138
139DECLARE
140 v_id gamestop_angajati.id_angajat%type := &id;
141 v_maj NUMBER := &maj;
142 v_id_citit gamestop_angajati.id_angajat%type;
143 v_nume gamestop_angajati.nume%type;
144 v_prenume gamestop_angajati.prenume%type;
145 v_salariul gamestop_angajati.salariul%type;
146 excpetie_ang EXCEPTION;
147 BEGIN
148 DBMS_OUTPUT.PUT_LINE('');
149 UPDATE gamestop_angajati SET salariul = v_maj*salariul WHERE id_angajat = v_id;
150IF SQL%NOTFOUND THEN
151   RAISE excpetie_ang;
152 ELSE
153   DBMS_OUTPUT.PUT_LINE('Angajatul cu ID-ul ' || v_id || ' a primit o marire de ' || v_maj || ' la salariu!');
154   DBMS_OUTPUT.PUT_LINE('');
155   SELECT id_angajat, nume, prenume, salariul INTO v_id_citit, v_nume, v_prenume, v_salariul FROM gamestop_angajati
156   WHERE id_angajat = v_id;
157   DBMS_OUTPUT.PUT_LINE('ID: ' || v_id_citit);
158   DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || v_nume || ' ' || v_prenume);
159   DBMS_OUTPUT.PUT_LINE('Salariul nou: ' || v_salariul);
160   DBMS_OUTPUT.PUT_LINE('');
161 END IF;

```

Opened nodes (9); Saved files(0)

Line 169 Column 2 | Insert | Windows: C

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SQL Worksheet | History

Worksheet | Query Builder

```
147 BEGIN
148   DBMS_OUTPUT.PUT_LINE('');
149   UPDATE gamestop_angajati SET salariul = v_maj*salariu WHERE id_angajat = v_id;
150   IF SQL%NOTFOUND THEN
151     RAISE excpetie_ang;
152   ELSE
153     DBMS_OUTPUT.PUT_LINE('Angajatul cu ID-ul ' || v_id || ' a primit o marire de ' || v_maj || ' la salariu!');
154     DBMS_OUTPUT.PUT_LINE('');
155     SELECT id_angajat, nume, prenume, salariul INTO v_id_citit, v_nume, v_prenume, v_salariul FROM gamestop_angajati
156     WHERE id_angajat = v_id;
157     DBMS_OUTPUT.PUT_LINE('ID: ' || v_id_citit);
158     DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || v_nume || ' ' || v_prenume);
159     DBMS_OUTPUT.PUT_LINE('Salariul nou: ' || v_salariul);
160     DBMS_OUTPUT.PUT_LINE('');
161   END IF;
162 EXCEPTION
163   WHEN excpetie_ang THEN
164     DBMS_OUTPUT.PUT_LINE('Nu exista angajatul cu ID-ul ' || v_id || '!');
165   WHEN OTHERS THEN
166     DBMS_OUTPUT.PUT_LINE('A aparut o alta problema!');
167     DBMS_OUTPUT.PUT_LINE(SQLERRM);
168 END;
169 /
```

Script Output x

Task completed in 37,855 seconds

Nu exista angajatul cu ID-ul 15!

PL/SQL procedure successfully completed.

Opened nodes (9): Saved files(0) | Line 168 Column 5 | Insert | Windows: C:

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Application Express

```
1 -- Tema 3 Project
2
3 -- 1) Realizati o procedura PL/SQL prin intermediul careia sa cresteti cu 15 procente comisionul acelor angajati care au
4 -- functia de MANAGER ( ..._MAN ) si care au salariul mai mic decat o valoare transmisa ca parametru.
5 -- Returnati numarul de angajati pentru care se realizeaza aceasta actualizare, sau tratati in mod corespunzator o exceptie
6 -- daca nu exista nici un angajat pentru care se modifica salariul.
7 -- Apelati procedura si afisati numarul de angajati carora li s-a modificat comisionul.
8
9 SET SERVEROUTPUT ON;
10
11 -- PROCEDURA 1
12
13 CREATE OR REPLACE PROCEDURE marire_comision( p_salariul IN NUMBER, p_numar OUT NUMBER)
14 IS
15     exceptie EXCEPTION;
16 BEGIN
17     UPDATE gamestop_angajati
18     SET comision = comision + 0.15
19     WHERE id_functie like '%_MAN' and salariul < p_salariul;
20     IF SQL%FOUND THEN
21         p_numar := SQL%ROWCOUNT;
22     ELSE
23         RAISE exceptie;
24     END IF;
25     EXCEPTION when exceptie THEN p_numar:=0;
26 END;
27 /
```

Script Output x

Task completed in 0,195 seconds

Opened nodes (4); Saved files(0)

Line 27 Column 2 | Insert | Windows: C

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SQL Worksheet History

Worksheet Query Builder

```
28
29 -- PROGRAM 1
30
31 DECLARE
32     v_salarialu NUMBER := &salarialu;
33     v_numar NUMBER;
34     CURSOR c1 IS SELECT nume, prenume, salariul, comision FROM gamestop_angajati
35     WHERE id_functie like '%_MAN' and salariul < v_salarialu;
36     BEGIN
37         marire_comision(v_salarialu, v_numar);
38         IF v_numar>0 THEN
39             dbms_output.put_line('Au fost modificate ' || v_numar || ' comisioane!');
40             DBMS_OUTPUT.PUT_LINE('');
41             FOR i in c1 LOOP
42                 DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || i.nume || ' ' || i.prenume);
43                 DBMS_OUTPUT.PUT_LINE('Salariul: ' || i.salariul);
44                 DBMS_OUTPUT.PUT_LINE('Comision: ' || i.comision);
45                 DBMS_OUTPUT.PUT_LINE('');
46             END LOOP;
47         ELSE
48             dbms_output.put_line('Nu exista angajati conform criteriilor procedurii!');
49         END IF;
50     END;
51 /
52
53     rollback;
54
```

Script Output

Task completed in 0,195 seconds

Opened nodes (5): Saved files(0)

Line 51 Column 2 | Insert | Windows: C

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Worksheet Query Builder

```
42    FOR i in c1 LOOP
43        DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || i.nume || ' ' || i.prenume);
44        DBMS_OUTPUT.PUT_LINE('Salariul: ' || i.salariul);
45        DBMS_OUTPUT.PUT_LINE('Comision: ' || i.comision);
46        DBMS_OUTPUT.PUT_LINE('');
47    END LOOP;
48    ELSE
49        dbms_output.put_line('Nu exista angajati conform criteriilor procedurii!');
50    END IF;
51 END;
52 /
53
54 select * from gamestop_angajati;
55 rollback;
```

Script Output x | Task completed in 3,163 seconds

Au fost modificate 2 comisioane!

Nume si prenume: Scorgea Mitica
Salariul: 8400
Comision: .4

Nume si prenume: Gogea Elena
Salariul: 7350
Comision: .4

PL / SQL procedure successfully completed.

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ORACLE DATABASE

```
38 marire_comision(v_salarial, v_numar);
39 IF v_numar>0 THEN
40     dbms_output.put_line('Au fost modificate ' || v_numar || ' comisioane!');
41     DBMS_OUTPUT.PUT_LINE('');
42     FOR i in c1 LOOP
43         DBMS_OUTPUT.PUT_LINE('Nume si prenume: ' || i.nume || ' ' || i.prenume);
44         DBMS_OUTPUT.PUT_LINE('Salariul: ' || i.salarial);
45         DBMS_OUTPUT.PUT_LINE('Comision: ' || i.comision);
46         DBMS_OUTPUT.PUT_LINE('');
47     END LOOP;
48 ELSE
49     dbms_output.put_line('Nu exista angajati conform criteriilor procedurii!');
50 END IF;
51 END;
52 /
53
54 select * from gamestop_angajati;
55 rollback;
56
57 -- 2) Realizati o procedura PL/SQL prin intermediul careia sa scadeti cu 30% pretul jocurilor care pot fi jucate pe consola
58 -- ( Console ) si care au pretul mai mare decat o valoare transmisa ca parametru.
59 
```

Script Output x | Task completed in 2,899 seconds

Nu exista angajati conform criteriilor procedurii!

PL/SQL procedure successfully completed.

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Worksheet Query Builder

```
56
57 -- 2) Realizati o procedura PL/SQL prin intermediul careia sa scadeti cu 30% pretul jocurilor care pot fi jucate pe consola
58 -- ( Console ) si care au pretul mai mare decat o valoare transmisa ca parametru.
59 -- Returnati numarul produselor al caror pret s-a modificat si tratati in mod corespunzator o exceptie daca nu exista
60 -- nici un produs pentru care se modifica pretul.
61 -- Apelati procedura si afisati detalii despre produsele care pot fi jucate pe consola pentru a vedea eventualele modificar
62
63 -- PROCEDURA 2
64
65 CREATE OR REPLACE PROCEDURE spring_sale( p_pret IN NUMBER, p_numar OUT NUMBER)
66 IS
67 exceptie EXCEPTION;
68 BEGIN
69     UPDATE gamestop_produse
70     SET pret = 0.7 * pret
71     WHERE compatibilitate like '%Console' and pret >= p_pret;
72 IF SQL%FOUND THEN
73     p_numar := SQL%ROWCOUNT;
74 ELSE
75     RAISE exceptie;
76 END IF;
77 EXCEPTION when exceptie THEN p_numar:=0;
78 END;
79 /
80
81 -- PROGRAM 2
82
83 DECLARE
84 v_pret NUMBER := &pret;
85 v_numar NUMBER;
```

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Worksheet Query Builder

ORACLE DATABASE

```
80
81 -- PROGRAM 2
82
83 DECLARE
84   v_pret NUMBER := &pret;
85   v_numar NUMBER;
86   CURSOR c2 IS SELECT denumire_produs, compatibilitate, categorie, pret FROM gamestop_produse
87   WHERE compatibilitate like '%Console' and pret >= v_pret;
88 BEGIN
89   DBMS_OUTPUT.PUT_LINE('');
90   spring_sale(v_pret, v_numar);
91   IF v_numar>0 THEN
92     DBMS_OUTPUT.PUT_LINE('Au fost modificate ' || v_numar || ' produse!');
93     DBMS_OUTPUT.PUT_LINE('');
94   FOR i in c2 LOOP
95     DBMS_OUTPUT.PUT_LINE('Denumire: ' || i.denumire_produs);
96     DBMS_OUTPUT.PUT_LINE('Compatibilitate: ' || i.compatibilitate);
97     DBMS_OUTPUT.PUT_LINE('Categorie: ' || i.categorie);
98     DBMS_OUTPUT.PUT_LINE('Pret: ' || i.pret || ' RON');
99     DBMS_OUTPUT.PUT_LINE('');
100  END LOOP;
101 ELSE
102   DBMS_OUTPUT.PUT_LINE('Nu exista produse conform criteriilor procedurii!');
103 END IF;
104 END;
105 /
106
107 select * from gamestop_produse;
108 rollback;
109
```

Opened nodes (5); Saved files(0) | Line 87 Column 50 | Insert | Windows: C

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SQL Worksheet History

Worksheet Query Builder

ORACLE DATABASE

```
103     END IF;
104   END;
105 /
106
107 select * from gamestop_produse;
108 rollback;
```

Script Output x | Task completed in 2,625 seconds

Au fost modificate 3 produse!

Denumire: Dead By Daylight
Compatibilitate: PC|Mobile|Console
Categorie: Horror
Pret: 70 RON

Denumire: Grand Theft Auto V
Compatibilitate: PC|Console
Categorie: Open World
Pret: 210 RON

Denumire: Rocket League
Compatibilitate: PC|Console
Categorie: Sports
Pret: 70 RON

PL/SQL procedure successfully completed.

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SQL Worksheet History

Worksheet Query Builder

```
89 DBMS_OUTPUT.PUT_LINE('');
90 spring_sale(v_pret, v_numar);
91 IF v_numar>0 THEN
92     DBMS_OUTPUT.PUT_LINE('Au fost modificate ' || v_numar || ' produse!');
93     DBMS_OUTPUT.PUT_LINE('');
94 FOR i in c2 LOOP
95     DBMS_OUTPUT.PUT_LINE('Denumire: ' || i.denumire_produs);
96     DBMS_OUTPUT.PUT_LINE('Compatibilitate: ' || i.compatibilitate);
97     DBMS_OUTPUT.PUT_LINE('Categorie: ' || i.categorie);
98     DBMS_OUTPUT.PUT_LINE('Pret: ' || i.pret || ' RON');
99     DBMS_OUTPUT.PUT_LINE('');
100 END LOOP;
101 ELSE
102     DBMS_OUTPUT.PUT_LINE('Nu exista produse conform criteriilor procedurii!');
103 END IF;
104 END;
105 /
106
107 select * from gamestop_produse;
108 rollback;
```

Script Output X

Task completed in 7,734 seconds

Nu exista produse conform criteriilor procedurii!

PL/SQL procedure successfully completed.

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SQL Worksheet History

Worksheet Query Builder

```

109
110 -- 3) Realizati o procedura PL/SQL prin intermediul careia sa fie adaugat un nou joc video in stocul magazinului.
111 -- Sa se salveze modificarile!
112 -- Tratai la modul general orice exceptie care poate aparea.
113 -- Apelati procedura si afisati detalii despre produsul adaugat.
114
115 select * from gamestop_produse
116 order by id_produs;

```

Query Result

| ID_PRODUS | DENUMIRE_PRODUS | COMPATIBILITATE | CATEGORIE | PRET |
|-----------|------------------------------------|-------------------|------------------|------|
| 1 | 1 Counter-Strike: Global Offensive | PC | Shooter | 50 |
| 2 | 2 American Truck Simulator | PC | Simulation | 100 |
| 3 | 3 Among Us | PC Mobile | Social-Deduction | 50 |
| 4 | 4 Dead By Daylight | PC Mobile Console | Horror | 100 |
| 5 | 5 Euro Truck Simulator | PC | Simulation | 100 |
| 6 | 6 Fall Guys | PC | Party | 100 |
| 7 | 7 Grand Theft Auto V | PC Console | Open World | 300 |
| 8 | 8 World Of Warcraft | PC | MMORPG | 75 |
| 9 | 9 Rocket League | PC Console | Sports | 100 |
| 10 | 10 Golf It | PC | Sports | 50 |
| 11 | 11 Warframe | PC | Shooter | 75 |

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SQL Worksheet History

Worksheet Query Builder

```
109  
110 -- 3) Realizati o procedura PL/SQL prin intermediul careia sa fie adaugat un nou joc video in stocul magazinului.  
111 -- Sa se salveze modificarile!  
112 -- Tratai la modul general orice exceptie care poate aparea.  
113 -- Apelati procedura si afisati detalii despre produsul adaugat.  
114  
115 select * from gamestop_produse  
116 order by id_produs;  
117  
118 -- PROCEDURA 3  
119  
120 CREATE OR REPLACE PROCEDURE adauga_produs( p_id_produs IN NUMBER, p_denumire IN VARCHAR2, p_compatibilitate IN VARCHAR2,  
121 p_categorie IN VARCHAR2, p_pret IN NUMBER)  
122 IS  
123 BEGIN  
124     INSERT INTO gamestop_produse(id_produs, denumire_produs, compatibilitate, categorie, pret)  
125     VALUES (p_id_produs, p_denumire, p_compatibilitate, p_categorie, p_pret);  
126     COMMIT;  
127     DBMS_OUTPUT.PUT_LINE('Jocul a fost adăugat cu succes în baza de date a magazinului!');  
128     DBMS_OUTPUT.PUT_LINE('Denumire: ' || p_denumire);  
129     DBMS_OUTPUT.PUT_LINE('Compatibilitate: ' || p_compatibilitate);  
130     DBMS_OUTPUT.PUT_LINE('Categorie: ' || p_categorie);  
131     DBMS_OUTPUT.PUT_LINE('Pret: ' || p_pret);  
132 EXCEPTION  
133     WHEN OTHERS THEN  
134         DBMS_OUTPUT.PUT_LINE('A apărut o eroare: ' || SQLERRM);  
135         ROLLBACK;  
136 END;  
137 /  
138
```

Opened nodes (5); Saved files(0) | Line 137 Column 2 | Insert | Windows: C

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SQL Worksheet History

Worksheet Query Builder

```
139 -- PROGRAM 3
140
141 DECLARE
142     v_id gamestop_produse.id_produs%type := &id;
143     v_denumire gamestop_produse.denumire_produs%type := '&denumire';
144     v_compatibilitate gamestop_produse.compatibilitate%type := '&compatibilitate';
145     v_categorie gamestop_produse.categorie%type := '&categorie';
146     v_pret gamestop_produse.pret%type := &pret;
147 BEGIN
148     DBMS_OUTPUT.PUT_LINE('');
149     adauga_produs(v_id, v_denumire, v_compatibilitate, v_categorie, v_pret);
150 END;
151 /
152
```

Script Output

adauga_produs(v_id, v_denumire, v_compatibilitate, v_categorie, v_pret);
END;

Jocul a fost adăugat cu succes în bază de date a magazinului!
Denumire: Mario Bros
Compatibilitate: PC|Console
Categorie: Arcade
Pret: 25

PL/SQL procedure successfully completed.

Opened nodes (5); Saved files(0) | Line 151 Column 2 | Insert | Modified | Windows: C

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SQL Worksheet History

Worksheet Query Builder

```

100: rollback;
109:
110: -- 3) Realizati o procedura PL/SQL prin intermediul careia sa fie adaugat un nou joc video in stocul magazinului.
111: -- Sa se salveze modificarile!
112: -- Tratai la modul general orice exceptie care poate aparea.
113: -- Apelati procedura si afisati detalii despre produsul adaugat.
114:
115: select * from gamestop_produse
116: order by id_produs;
117:
  
```

Script Output | Query Result

All Rows Fetched: 12 in 0,297 seconds

| ID_PRODUS | DENUMIRE_PRODUS | COMPATIBILITATE | CATEGORIE | PRET |
|-----------|------------------------------------|-------------------|------------------|------|
| 1 | 1 Counter-Strike: Global Offensive | PC | Shooter | 50 |
| 2 | 2 American Truck Simulator | PC | Simulation | 100 |
| 3 | 3 Among Us | PC Mobile | Social-Deduction | 50 |
| 4 | 4 Dead By Daylight | PC Mobile Console | Horror | 100 |
| 5 | 5 Euro Truck Simulator | PC | Simulation | 100 |
| 6 | 6 Fall Guys | PC | Party | 100 |
| 7 | 7 Grand Theft Auto V | PC Console | Open World | 300 |
| 8 | 8 World Of Warcraft | PC | MMORPG | 75 |
| 9 | 9 Rocket League | PC Console | Sports | 100 |
| 10 | 10 Golf It | PC | Sports | 50 |
| 11 | 11 Warframe | PC | Shooter | 75 |
| 12 | 12 Mario Bros | PC Console | Arcade | 25 |

Opened nodes (5); Saved files(0) | Line 116 Column 20 | Insert | Modified | Windows: C

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Worksheet Query Builder

```
153
154 -- 4) Realizati o functie PL/SQL care sa returneze categoria in care se incadreaza un produs al carui id este transmis ca
155 -- parametru.
156 -- Produsele cu pretul mai mic de 75 de RON sunt in categoria 'LOW-BUDGET', cele cu pretul intre 75 si 150 RON 'MEDIUM-BUDGET'.
157 -- iar cele cu pretul peste 150 de RON sunt incadrate la 'PREMIUM'.
158 -- Tratati exceptia care apare daca produsul pentru care se face verificarea nu exista.
159
160 -- FUNCTIA 1
161
162 CREATE OR REPLACE FUNCTION categorisire_produs(p_id gamestop_produse.id_produs%type)
163 RETURN VARCHAR2
164 IS
165 v_pret gamestop_produse.pret%type;
166 BEGIN
167     SELECT pret INTO v_pret FROM gamestop_produse WHERE id_produs = p_id;
168     IF v_pret < 75 THEN
169         RETURN 'LOW-BUDGET';
170     ELSIF v_pret BETWEEN 75 AND 150 THEN
171         RETURN 'MEDIUM-BUDGET';
172     ELSE
173         RETURN 'PREMIUM';
174     END IF;
175     EXCEPTION
176     WHEN no_data_found THEN
177         RETURN 'Nu exista produsul cautat!';
178     END;
179 /
180
181 -- PROGRAM 4
```

Saved: D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 3 Project SGBD.sql | Line 116 Column 20 | Insert | Windows: C

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Worksheet Query Builder

```
180
181 -- PROGRAM 4
182
183 DECLARE
184     v_id gamestop_produse.id_produs%type := &id;
185     v_valoare VARCHAR2(100);
186 BEGIN
187     DBMS_OUTPUT.PUT_LINE('');
188     v_valoare := categorisire_produs(v_id);
189     DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul ' || v_id || ' este ' || v_valoare || '');
190 END;
191 /
```

Script Output x

Task completed in 1,174 seconds

```
new:DECLARE
v_id gamestop_produse.id_produs%type := 7;
v_valoare VARCHAR2(100);
BEGIN
    DBMS_OUTPUT.PUT_LINE('');
    v_valoare := categorisire_produs(v_id);
    DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul ' || v_id || ' este ' || v_valoare || '');
END;
```

Produsul cu ID-ul 7 este PREMIUM!

PL/SQL procedure successfully completed.

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Worksheet Query Builder

```
180  
181 -- PROGRAM 4  
182  
183 DECLARE  
184 v_id gamestop_produse.id_produs%type := &id;  
185 v_valoare VARCHAR2(100);  
186 BEGIN  
187 DBMS_OUTPUT.PUT_LINE('');  
188 v_valoare := categorisire_produs(v_id);  
189 DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul ' || v_id || ' este ' || v_valoare || '!');  
190 END;  
191 /
```

Script Output X | Task completed in 4,314 seconds

```
new:DECLARE  
v_id gamestop_produse.id_produs%type := 10;  
v_valoare VARCHAR2(100);  
BEGIN  
DBMS_OUTPUT.PUT_LINE('');  
v_valoare := categorisire_produs(v_id);  
DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul ' || v_id || ' este ' || v_valoare || '!');  
END;
```

Produsul cu ID-ul 10 este LOW-BUDGET!

PL/SQL procedure successfully completed.

Line 191 Column 2 | Insert | Windows: C

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SQL Worksheet History

Worksheet Query Builder

```
192
193 -- 5) Realizati o functie PL/SQL care primeste un ID de angajat ca parametru si returneaza detaliiile tuturor comenziilor
194 -- intermediate de catre acesta.
195 -- Tratati exceptiile care apar la modul general.
196
197 select * from gamestop_comenzi;
198 -- Doar angajatii cu ID-ul 3 sau 7 se ocupa de intermedierea comenziilor.
199
200 -- FUNCTIA 2
201
202 CREATE OR REPLACE FUNCTION comenzi_angajat( p_id_angajat IN NUMBER )
203 RETURN SYS_REFCURSOR
204 IS
205 v_cursor SYS_REFCURSOR;
206 BEGIN
207   OPEN v_cursor FOR
208     SELECT c.id_comanda, c.data_comanda, p.denumire_produs, p.pret, rc.cantitate, rc.pret_total
209       FROM gamestop_comenzi c, gamestop_produse p, gamestop_rand_comenzi rc
210      WHERE c.id_angajat = p_id_angajat AND c.id_comanda = rc.id_comanda AND rc.id_produs = p.id_produs;
211   RETURN v_cursor;
212 EXCEPTION
213 WHEN OTHERS THEN
214   DBMS_OUTPUT.PUT_LINE('Eroare: ' || SQLERRM);
215   RETURN NULL;
216 END;
217 /
218
219 -- PROGRAM 5
220
221 DECLARE
```

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SQL Worksheet History

Worksheet Query Builder

```
226
227 -- PROGRAM 5
228
229 DECLARE
230   v_id_angajat NUMBER := &id;
231   v_cursor SYS_REFCURSOR;
232   v_id_comanda gamestop_comenzi.id_comanda%type;
233   v_data gamestop_comenzi.data_comanda%type;
234   v_denumire gamestop_produse.denumire_produs%type;
235   v_pret gamestop_produse.pret%type;
236   v_cantitate gamestop_rand_comenzi.cantitate%type;
237   v_pret_total gamestop_rand_comenzi.pret_total%type;
238 BEGIN
239   DBMS_OUTPUT.PUT_LINE('');
240   v_cursor := comenzi_angajat(v_id_angajat);
241   DBMS_OUTPUT.PUT_LINE('Angajatul cu ID-ul ' || v_id_angajat || ' a intermediat urmatoarele comenzi:');
242   DBMS_OUTPUT.PUT_LINE('');
243 LOOP
244   FETCH v_cursor INTO v_id_comanda, v_data, v_denumire, v_pret, v_cantitate, v_pret_total;
245   EXIT WHEN v_cursor%NOTFOUND;
246   DBMS_OUTPUT.PUT_LINE('ID Comanda: ' || v_id_comanda);
247   DBMS_OUTPUT.PUT_LINE('Data: ' || v_data);
248   DBMS_OUTPUT.PUT_LINE('Denumire produs: ' || v_denumire);
249   DBMS_OUTPUT.PUT_LINE('Pret: ' || v_pret);
250   DBMS_OUTPUT.PUT_LINE('Cantitate: ' || v_cantitate);
251   DBMS_OUTPUT.PUT_LINE('Pret total:' || v_pret_total);
252   DBMS_OUTPUT.PUT_LINE('');
253 END LOOP;
254   CLOSE v_cursor;
255 END;
```

Opened nodes (5); Saved files(0)

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SQL Worksheet History

Worksheet Query Builder

Script Output x | Task completed in 1,231 seconds

Angajatul cu ID-ul 3 a intermediat urmatoarele comenzi:

ID Comanda: 9
Data: 17-DEC-22
Denumire produs: Counter-Strike: Global Offensive
Pret: 50 RON
Cantitate: 5
Pret total: 250 RON

ID Comanda: 7
Data: 23-DEC-22
Denumire produs: American Truck Simulator
Pret: 100 RON
Cantitate: 3
Pret total: 300 RON

ID Comanda: 4
Data: 18-DEC-22
Denumire produs: Among Us
Pret: 50 RON
Cantitate: 3
Pret total: 150 RON

ID Comanda: 2
Data: 05-DEC-22
Denumire produs: Dead By Daylight
Pret: 100 RON

Opened nodes (5); Saved files(0) | Line 257 Column 2 | Insert | Modified | Windows: C

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SQL Worksheet History

Worksheet Query Builder

ORACLE DATABASE

```
258
259 -- 6) Realizati o functie PL/SQL care primeste un ID de produs ca parametru, aplica o reducere de 25% produsului respectiv,
260 -- afiseaza noul pret si returneaza procentul reducerii. In programul main sa se apeleze functia pentru fiecare produs.
261
262 select * from gamestop_produse;
263
264 -- FUNCTIA 3
265
266 CREATE OR REPLACE FUNCTION aplicare_reducere_si_afisare(p_id gamestop_produse.id_produs%type)
267 RETURN NUMBER
268 IS
269   v_pret_initial gamestop_produse.pret%type;
270   v_pret_reducus gamestop_produse.pret%type;
271 BEGIN
272   SELECT pret INTO v_pret_initial FROM gamestop_produse WHERE id_produs = p_id;
273   UPDATE gamestop_produse
274   SET pret = 0.75 * pret
275   WHERE id_produs = p_id;
276   SELECT pret INTO v_pret_reducus FROM gamestop_produse WHERE id_produs = p_id;
277   DBMS_OUTPUT.PUT_LINE('Noul pret al produsul cu ID-ul ' || p_id || ' este ' || v_pret_reducus);
278 IF v_pret_initial > 0 THEN
279   RETURN ROUND((v_pret_initial - v_pret_reducus) / v_pret_initial * 100);
280 ELSE
281   RETURN 0;
282 END IF;
283 END;
284 /
285
286 -- PROGRAM 6
287
```

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
285
286 -- PROGRAM 6
287
288 DECLARE
289   v_id_produs gamestop_produse.id_produs%type;
290   v_reducere NUMBER;
291 BEGIN
292   FOR produs IN (SELECT id_produs FROM gamestop_produse) LOOP
293     v_id_produs := produs.id_produs;
294     v_reducere := aplicare_reducere_si_afisare(v_id_produs);
295     DBMS_OUTPUT.PUT_LINE('Produsul cu ID-ul ' || v_id_produs || ' are o reducere de ' || v_reducere || '%.');
296     DBMS_OUTPUT.PUT_LINE('');
297   END LOOP;
298 END;
299 /
300
```

Script Output X | Task completed in 0,095 seconds

Noul pret al produsul cu ID-ul 9 este 75
Produsul cu ID-ul 9 are o reducere de 25%.

Noul pret al produsul cu ID-ul 10 este 37.5
Produsul cu ID-ul 10 are o reducere de 25%.

Noul pret al produsul cu ID-ul 11 este 56.25
Produsul cu ID-ul 11 are o reducere de 25%.

Noul pret al produsul cu ID-ul 12 este 18.75
Produsul cu ID-ul 12 are o reducere de 25%.

Opened nodes (5); Saved files(0) | Line 299 Column 2 | Insert | Windows: C

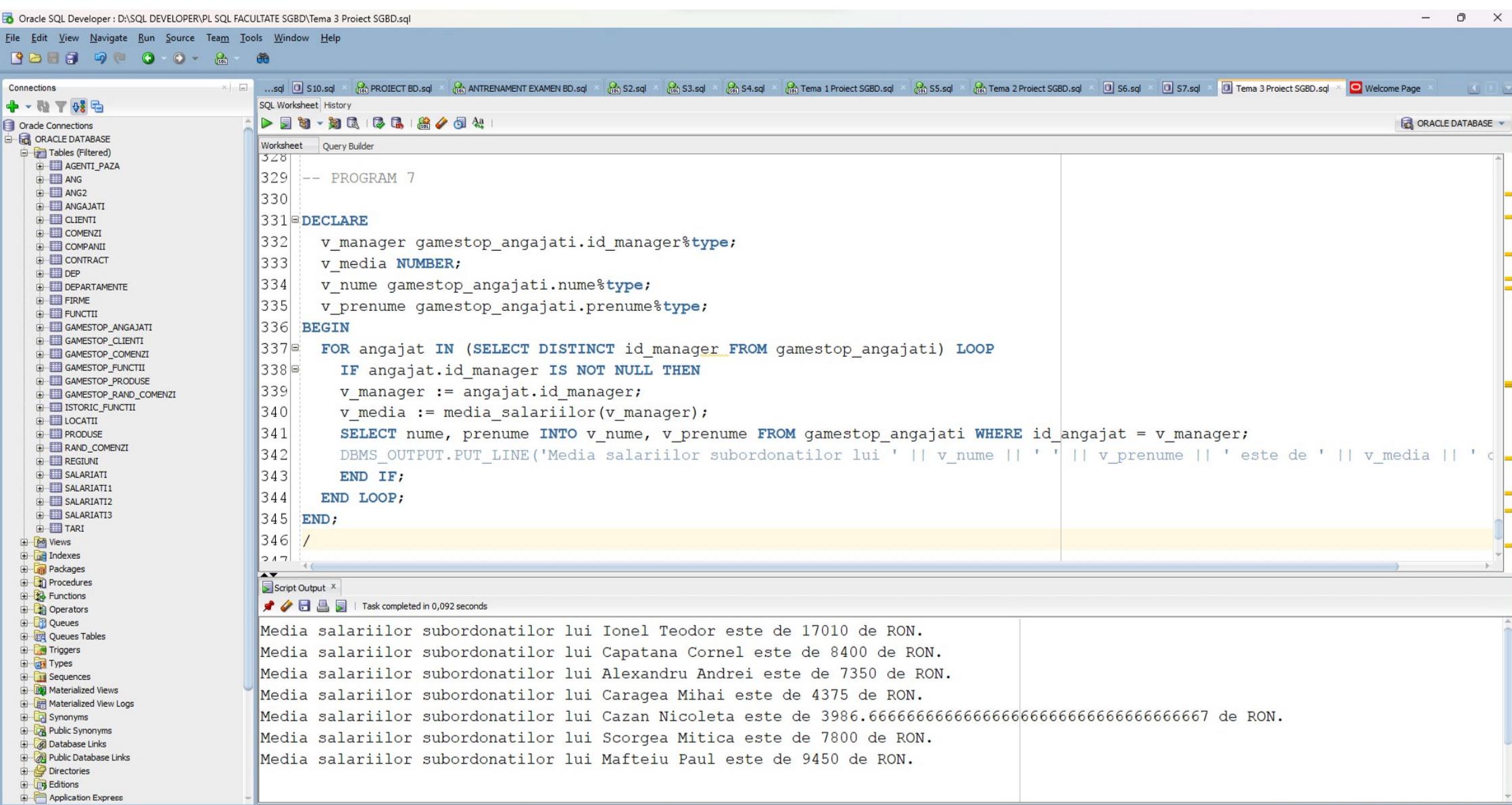
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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
302
303 -- 7) Realizati o functie PL/SQL care primeste un ID de manager ca parametru si care calculeaza media salariilor
304 -- subordonatilor acestuia. In main se va apela functia astfel incat va fi aplicata fiecarui manager.
305 -- Se vor afisa atat numele managerului cat si media respectiva.
306
307 select * from gamestop_angajati;
308
309 -- FUNCTIA 4
310
311 CREATE OR REPLACE FUNCTION media_salariilor(p_id_manager gamestop_angajati.id_manager%type)
312 RETURN NUMBER
313 IS
314   v_suma_salarii NUMBER := 0;
315   v_numar_angajati NUMBER := 0;
316 BEGIN
317   FOR angajat IN (SELECT salariul FROM gamestop_angajati WHERE id_manager = p_id_manager) LOOP
318     v_suma_salarii := v_suma_salarii + angajat.salariul;
319     v_numar_angajati := v_numar_angajati + 1;
320   END LOOP;
321   IF v_numar_angajati > 0 THEN
322     RETURN v_suma_salarii / v_numar_angajati;
323   ELSE
324     RETURN 0;
325   END IF;
326 END;
327 /
328
329 -- PROGRAM 7
330
```



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Worksheet Query Builder

```
1 -- Adaugarea procedurilor si functiilor create pentru TEMA 3 in pachete.
2
3 SET SERVEROUTPUT ON;
4
5 -- PACHET PROCEDURI
6
7 CREATE OR REPLACE PACKAGE pachet_proceduri
8 AS
9     PROCEDURE marire_comision( p_salariul IN NUMBER, p_numar OUT NUMBER);
10    PROCEDURE spring_sale( p_pret IN NUMBER, p_numar OUT NUMBER);
11    PROCEDURE adauga_produs( p_id_produs IN NUMBER, p_denumire IN VARCHAR2, p_compatibilitate IN VARCHAR2, p_categorie IN VARCHAR2);
12 END pachet_proceduri;
13 /
14
15 CREATE OR REPLACE PACKAGE pachet_funcții
16 AS
17     FUNCTION categorisire_produs(p_id gamestop_produse.id_produs%type) RETURN VARCHAR2;
18     FUNCTION comenzi_angajat( p_id_angajat IN NUMBER ) RETURN SYS_REFCURSOR;
19     FUNCTION aplicare_reducere_si_afisare(p_id gamestop_produse.id_produs%type) RETURN NUMBER;
20     FUNCTION media_salariilor(p_id_manager gamestop_angajati.id_manager%type) RETURN NUMBER;
21 END pachet_funcții;
22 /
```

Script Output x | Task completed in 0,046 seconds

Package PACHET_PROCEDURI compiled

Opened nodes (4); Saved files(0) | Line 13 Column 2 | Insert | Windows: C

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
2
3 SET SERVEROUTPUT ON;
4
5 -- PACHET PROCEDURI
6
7 CREATE OR REPLACE PACKAGE pachet_proceduri
8 AS
9     PROCEDURE marire_comision( p_salariul IN NUMBER, p_numar OUT NUMBER);
10    PROCEDURE spring_sale( p_pret IN NUMBER, p_numar OUT NUMBER);
11    PROCEDURE adauga_produs( p_id_produs IN NUMBER, p_denumire IN VARCHAR2, p_compatibilitate IN VARCHAR2, p_categorie IN VARCHAR2);
12 END pachet_proceduri;
13 /
14
15 CREATE OR REPLACE PACKAGE pachet_functii
16 AS
17     FUNCTION categorisire_produs(p_id gamestop_produse.id_produs%type) RETURN VARCHAR2;
18     FUNCTION comenzi_angajat( p_id_angajat IN NUMBER ) RETURN SYS_REFCURSOR;
19     FUNCTION aplicare_reducere_si_afisare(p_id gamestop_produse.id_produs%type) RETURN NUMBER;
20     FUNCTION media_salariilor(p_id_manager gamestop_angajati.id_manager%type) RETURN NUMBER;
21 END pachet_functii;
22 /
23
```

Script Output Task completed in 0,046 seconds

Package PACHET_FUNCTII compiled

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
24 CREATE OR REPLACE PACKAGE BODY pachet_proceduri
25 AS
26
27   PROCEDURE marire_comision( p_salariul IN NUMBER, p_numar OUT NUMBER)
28   IS
29     exceptie EXCEPTION;
30   BEGIN
31     UPDATE gamestop_angajati
32     SET comision = comision + 0.15
33     WHERE id_functie like '%_MAN' and salariul < p_salariul;
34     IF SQL%FOUND THEN
35       p_numar := SQL%ROWCOUNT;
36     ELSE
37       RAISE exceptie;
38     END IF;
39   EXCEPTION when exceptie THEN p_numar:=0;
40 END;
41
42   PROCEDURE spring_sale( p_pret IN NUMBER, p_numar OUT NUMBER)
43   IS
44     exceptie EXCEPTION;
45   BEGIN
46     UPDATE gamestop_produse
47     SET pret = 0.7 * pret
48     WHERE compatibilitate like '%Console' and pret >= p_pret;
49     IF SQL%FOUND THEN
50       p_numar := SQL%ROWCOUNT;
51     ELSE
52       RAISE exceptie;
```

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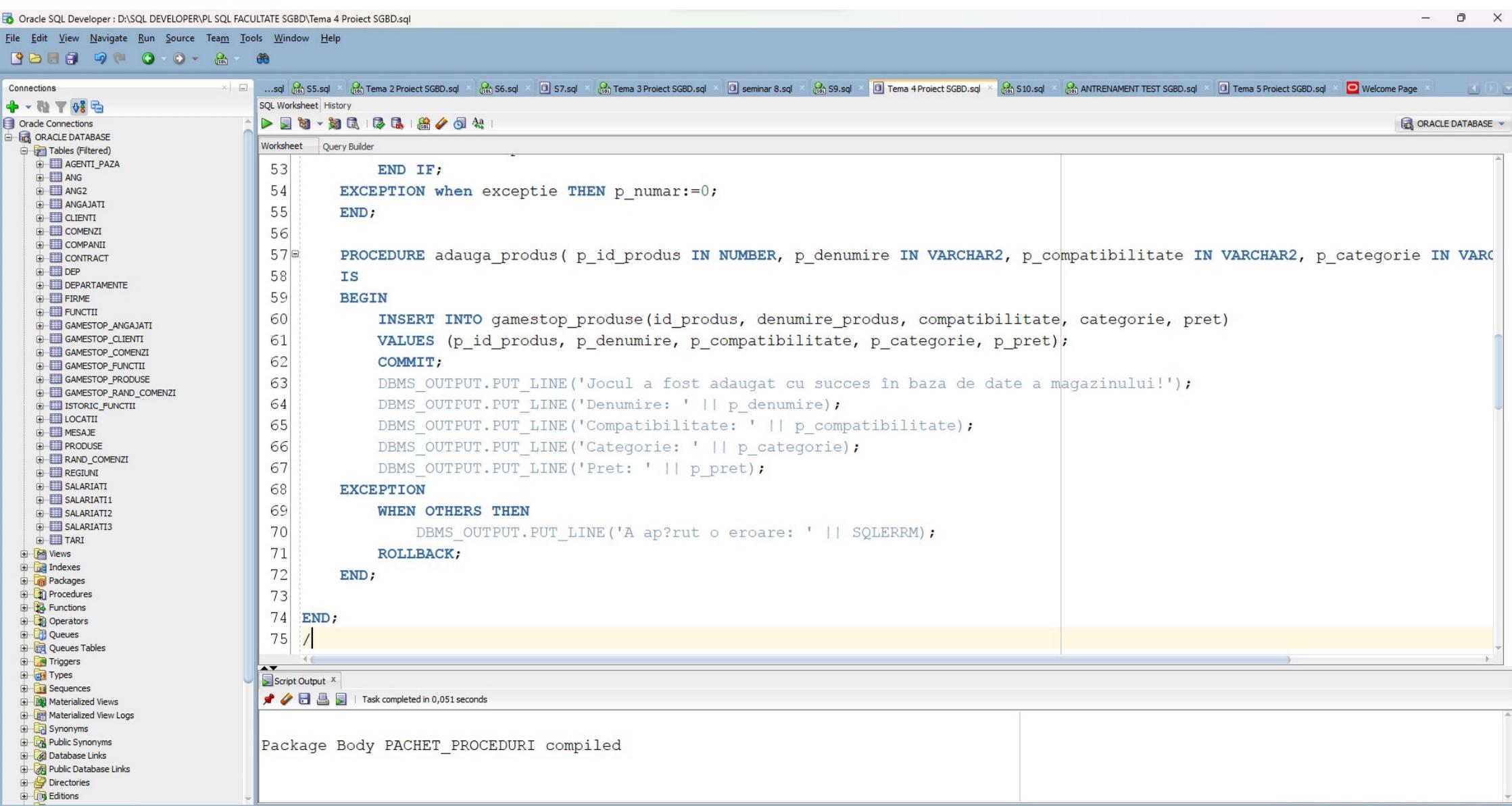
Worksheet Query Builder

ORACLE DATABASE

```
40 UPDATE gamestop_proause
41     SET pret = 0.7 * pret
42 WHERE compatibilitate like '%Console' and pret >= p_pret;
43 IF SQL%FOUND THEN
44     p_numar := SQL%ROWCOUNT;
45 ELSE
46     RAISE exceptie;
47 END IF;
48 EXCEPTION when exceptie THEN p_numar:=0;
49 END;

50 PROCEDURE adauga_produs( p_id_produs IN NUMBER, p_denumire IN VARCHAR2, p_compatibilitate IN VARCHAR2, p_categorie IN VARCHAR2)
51 IS
52 BEGIN
53     INSERT INTO gamestop_produse(id_produs, denumire_produs, compatibilitate, categorie, pret)
54     VALUES (p_id_produs, p_denumire, p_compatibilitate, p_categorie, p_pret);
55     COMMIT;
56     DBMS_OUTPUT.PUT_LINE('Jocul a fost adaugat cu succes in baza de date a magazinului!');
57     DBMS_OUTPUT.PUT_LINE('Denumire: ' || p_denumire);
58     DBMS_OUTPUT.PUT_LINE('Compatibilitate: ' || p_compatibilitate);
59     DBMS_OUTPUT.PUT_LINE('Categorie: ' || p_categorie);
60     DBMS_OUTPUT.PUT_LINE('Pret: ' || p_pret);
61 EXCEPTION
62     WHEN OTHERS THEN
63         DBMS_OUTPUT.PUT_LINE('A apărut o eroare: ' || SQLERRM);
64         ROLLBACK;
65     END;
66
67 END;
68
69
70
71
72
73
74
75 /
```

Opened nodes (4); Saved files(0) | Line 75 Column 2 | Insert | Windows: C



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SQL Worksheet History

Worksheet Query Builder

```
77 CREATE OR REPLACE PACKAGE BODY pachet_functii
78 AS
79
80     FUNCTION categorisire_produs(p_id gamestop_produse.id_produs%type) RETURN VARCHAR2
81     IS
82         v_pret gamestop_produse.pret%type;
83     BEGIN
84         SELECT pret INTO v_pret FROM gamestop_produse WHERE id_produs = p_id;
85         IF v_pret < 75 THEN
86             RETURN 'LOW-BUDGET';
87         ELSIF v_pret BETWEEN 75 AND 150 THEN
88             RETURN 'MEDIUM-BUDGET';
89         ELSE
90             RETURN 'PREMIUM';
91         END IF;
92     EXCEPTION
93         WHEN no_data_found THEN
94             RETURN 'Nu exista produsul cautat!';
95     END;
96
97     FUNCTION comenzi_angajat( p_id_angajat IN NUMBER ) RETURN SYS_REFCURSOR
98     IS
99         v_cursor SYS_REFCURSOR;
100    BEGIN
101        OPEN v_cursor FOR
102            SELECT c.id_comanda, c.data_comanda, p.denumire_produs, p.pret, rc.cantitate, rc.pret_total
103            FROM gamestop_comenzi c, gamestop_produse p, gamestop_rand_comenzi rc
104            WHERE c.id_angajat = p_id_angajat AND c.id_comanda = rc.id_comanda AND rc.id_produs = p.id_produs;
105        RETURN v_cursor;

```

Opened nodes (4); Saved files(0) | Line 77 Column 46 | Insert | Windows: C

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Worksheet Query Builder

ORACLE DATABASE

```
105      RETURN v_cursor;
106
107  EXCEPTION
108    WHEN OTHERS THEN
109      DBMS_OUTPUT.PUT_LINE('Eroare: ' || SQLERRM);
110      RETURN NULL;
111
112  FUNCTION aplicare_reducere_si_afisare(p_id gamestop_produse.id_produs%type) RETURN NUMBER
113  IS
114    v_pret_initial gamestop_produse.pret%type;
115    v_pret_redus gamestop_produse.pret%type;
116  BEGIN
117    SELECT pret INTO v_pret_initial FROM gamestop_produse WHERE id_produs = p_id;
118    UPDATE gamestop_produse
119    SET pret = 0.75 * pret
120    WHERE id_produs = p_id;
121    SELECT pret INTO v_pret_redus FROM gamestop_produse WHERE id_produs = p_id;
122    DBMS_OUTPUT.PUT_LINE('Noul pret al produsului cu ID-ul ' || p_id || ' este ' || v_pret_redus);
123    IF v_pret_initial > 0 THEN
124      RETURN ROUND((v_pret_initial - v_pret_redus) / v_pret_initial * 100);
125    ELSE
126      RETURN 0;
127    END IF;
128  END;
129
130  FUNCTION media_salarilor(p_id_manager gamestop_angajati.id_manager%type) RETURN NUMBER
131  IS
132    v_suma_salarii NUMBER := 0;
133    v_numar_angajati NUMBER := 0;
-----
```

Opened nodes (4); Saved files (0) | Line 105 Column 25 | Insert | Windows: C

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SQL Worksheet History

Worksheet Query Builder ORACLE DATABASE

```
118 UPDATE gamestop_produse
119     SET pret = 0.75 * pret
120     WHERE id_produs = p_id;
121
122     SELECT pret INTO v_pret_redus FROM gamestop_produse WHERE id_produs = p_id;
123     DBMS_OUTPUT.PUT_LINE('Noul pret al produsului cu ID-ul ' || p_id || ' este ' || v_pret_redus);
124     IF v_pret_initial > 0 THEN
125         RETURN ROUND((v_pret_initial - v_pret_redus) / v_pret_initial * 100);
126     ELSE
127         RETURN 0;
128     END IF;
129
130 FUNCTION media_salariilor(p_id_manager gamestop_angajati.id_manager%type) RETURN NUMBER
131 IS
132     v_suma_salarii NUMBER := 0;
133     v_numar_angajati NUMBER := 0;
134
135 BEGIN
136     FOR angajat IN (SELECT salariul FROM gamestop_angajati WHERE id_manager = p_id_manager) LOOP
137         v_suma_salarii := v_suma_salarii + angajat.salariul;
138         v_numar_angajati := v_numar_angajati + 1;
139     END LOOP;
140     IF v_numar_angajati > 0 THEN
141         RETURN v_suma_salarii / v_numar_angajati;
142     ELSE
143         RETURN 0;
144     END IF;
145
146 END;
147 /
```

Opened nodes (4); Saved files(0) | Line 147 Column 2 | Insert | Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 4 Proiect SGBD.sql

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Worksheet Query Builder

```
125      ELSE
126          RETURN 0;
127      END IF;
128  END;
129
130  FUNCTION media_salariilor(p_id_manager gamestop_angajati.id_manager%type) RETURN NUMBER
131  IS
132      v_suma_salarii NUMBER := 0;
133      v_numar_angajati NUMBER := 0;
134  BEGIN
135      FOR angajat IN (SELECT salariul FROM gamestop_angajati WHERE id_manager = p_id_manager) LOOP
136          v_suma_salarii := v_suma_salarii + angajat.salariul;
137          v_numar_angajati := v_numar_angajati + 1;
138      END LOOP;
139      IF v_numar_angajati > 0 THEN
140          RETURN v_suma_salarii / v_numar_angajati;
141      ELSE
142          RETURN 0;
143      END IF;
144  END;
145
146  END;
147 /
```

Script Output X | Task completed in 0,103 seconds

Package Body PACHET_FUNCTII compiled

Opened nodes (4); Saved files(0) | Line 147 Column 2 | Insert | Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 5 Proiect SGBD.sql

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
1 -- DECLANSATORI
2
3 SET SERVEROUTPUT ON;
4
5 -- 1) Sa se realizeze un trigger care sa nu permita inserarea de produse cu preturi ale caror valori sunt negative.
6
7 CREATE OR REPLACE TRIGGER pret_negativ
8 BEFORE
9 INSERT OR UPDATE
10 ON gamestop_produse
11 FOR EACH ROW
12 BEGIN
13 IF inserting THEN
14     IF:new.pret < 0 THEN
15         RAISE_APPLICATION_ERROR(-20142,'Produsul inserat nu poate avea un pret negativ!');
16     END IF;
17 ELSE
18     IF:new.pret < 0 THEN
19         RAISE_APPLICATION_ERROR(-20145,'Pretul produsului nu poate fi negativ!');
20     END IF;
21 END IF;
22 END;
23 /
```

Script Output Task completed in 0,083 seconds

Trigger PRET_NEGATIV compiled

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SQL Worksheet History

Worksheet Query Builder

```
25 -- Verificare TRIGGER
26
27 INSERT INTO gamestop_produse values(13,'Cyberpunk','PC','Open World',-10);
28
29 UPDATE gamestop_produse
30 SET pret = -10
31 WHERE categorie LIKE 'Shooter';
32
```

Script Output X | Task completed in 0,041 seconds

```
Error starting at line : 29 in command -
UPDATE gamestop_produse
SET pret = -10
WHERE categorie LIKE 'Shooter'
Error report -
ORA-20145: Pretul produsului nu poate fi negativ!
ORA-06512: at "IONELT_53.PRET_NEGATIV", line 8
ORA-04088: error during execution of trigger 'IONELT_53.PRET_NEGATIV'
```

Opened nodes (6); Saved files(0) | Line 31 Column 32 | Insert | Modified | Windows: C

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SQL Worksheet | History

Worksheet Query Builder

```
24
25 -- Verificare TRIGGER
26
27 INSERT INTO gamestop_produse values(13,'Cyberpunk','PC','Open World',-10, 500);
28
29 UPDATE gamestop_produse
30 SET pret = -10
31 WHERE categorie LIKE 'Shooter';
32
33 SELECT * FROM gamestop_produse;
34 rollback;
```

Script Output | Query Result | Task completed in 0,032 seconds

Error starting at line : 27 in command -
INSERT INTO gamestop_produse values(13,'Cyberpunk','PC','Open World',-10, 500)
Error report -
ORA-20142: Produsul inserat nu poate avea un pret negativ!
ORA-06512: at "IONELT_53.PRET_NEGATIV", line 4
ORA-04088: error during execution of trigger 'IONELT_53.PRET_NEGATIV'

Opened nodes (6): Saved files(0) | Line 27 Column 80 | Insert | Modified | Windows: C

Oracle SQL Developer

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Connections

SQL Worksheet History

Worksheet Query Builder

```
36 -- 2) Sa se adauge in tabela gamestop_produse coloana Stoc. Sa se introduca valoarea 500 in coloana nou adaugata. Sa se creeze
37 -- trigger care sa nu permita comandarea unui joc in cantitate mai mare decat stocul aferent.
38
39 ALTER TABLE gamestop_produse
40 ADD stoc NUMBER DEFAULT 500;
41
42 CREATE OR REPLACE TRIGGER alerta_stoc
43 BEFORE
44 INSERT OR UPDATE OF cantitate
45 ON gamestop_rand_comenzi
46 FOR EACH ROW
47 DECLARE
48 v_stoc gamestop_produse.stoc%type;
49 BEGIN
50     SELECT stoc INTO v_stoc FROM gamestop_produse WHERE id_produs = :NEW.id_produs;
51     IF v_stoc < :NEW.cantitate THEN
52         RAISE_APPLICATION_ERROR(-20347, 'Nu avem stoc suficient pentru jocul respectiv!');
53     ELSIF inserting THEN
54         UPDATE gamestop_produse
55             SET stoc = stoc - :NEW.cantitate
56             WHERE id_produs = :NEW.id_produs;
57     ELSE
58         UPDATE gamestop_produse
59             SET stoc = stoc - :NEW.cantitate
60             WHERE id_produs = :NEW.id_produs;
61         UPDATE gamestop_rand_comenzi
62             SET pret_total = :NEW.pret_total
63             WHERE id_produs = :NEW.id_produs;
64     END IF;

```

Opened nodes (6); Saved files (0)

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet Query Builder

```
62     SET pret_total = :NEW.pret_total
63     WHERE id_produs = :NEW.id_produs;
64   END IF;
65 END;
66 /
67
68 -- STOC INSUFICIENT
69 INSERT INTO gamestop_rand_comenzi values(11,11,600,45000);
70
71 -- STOC INSUFICIENT
72 UPDATE gamestop_rand_comenzi
73 SET cantitate = 3000
74 WHERE id_produs = 10;
75
```

Script Output X | Task completed in 0,092 seconds

Trigger ALERTA_STOC compiled

Opened nodes (6); Saved files(0) | Line 66 Column 2 | Insert | Windows: C

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SQL Worksheet History

Worksheet Query Builder

```
68 -- STOC INSUFICIENT
69 INSERT INTO gamestop_rand_comenzi values(11,11,600,45000);
70
71 -- STOC INSUFICIENT
72 UPDATE gamestop_rand_comenzi
73 SET cantitate = 3000
74 WHERE id_produs = 10;
```

Script Output x | Task completed in 0,042 seconds

Error starting at line : 69 in command -
INSERT INTO gamestop_rand_comenzi values(11,11,600,45000)
Error report -
ORA-20347: Nu avem stoc suficient pentru jocul respectiv!
ORA-06512: at "IONELT_53.ALERTA_STOC", line 6
ORA-04088: error during execution of trigger 'IONELT_53.ALERTA_STOC'

Opened nodes (6); Saved files(0) | Line 59 Column 59 | Insert | Windows: C

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Worksheet Query Builder

```
68 -- STOC INSUFICIENT
69 INSERT INTO gamestop_rand_comenzi values(11,11,600,45000);
70
71 -- STOC INSUFICIENT
72 UPDATE gamestop_rand_comenzi
73 SET cantitate = 3000
74 WHERE id_produs = 10;
```

Script Output | Task completed in 0,049 seconds

Error starting at line : 72 in command -
UPDATE gamestop_rand_comenzi
SET cantitate = 3000
WHERE id_produs = 10
Error report -
ORA-20347: Nu avem stoc suficient pentru jocul respectiv!
ORA-06512: at "IONELT_53.ALERTA_STOC", line 6
ORA-04088: error during execution of trigger 'IONELT_53.ALERTA_STOC'

Opened nodes (6); Saved files(0) | Line 74 Column 22 | Insert | Windows: C

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SQL Worksheet History

Worksheet Query Builder

```
80
81 -- 3) Sa se creeze un TRIGGER pentru cazul in care se incearca inserarea sau actualizarea unui salariu al unui angajat cu
82 -- o valoare de peste 100000 de RON.
83
84 select * from gamestop_angajati;
85
86 INSERT INTO gamestop_angajati values(999, 'Dinu', 'Marcel', 'dinum@gmail.com', '0546.425.325', to_date('18-MAY-2023', 'DD-MON-'));
87 COMMIT;
88
89 CREATE OR REPLACE TRIGGER salariu_max_vechime
90 BEFORE
91 INSERT OR UPDATE OF salariul
92 ON gamestop_angajati
93 FOR EACH ROW
94 DECLARE
95 v_vechime NUMBER;
96 BEGIN
97     v_vechime := MONTHS_BETWEEN(SYSDATE, :OLD.data_angajare);
98     IF v_vechime < 3 THEN
99         RAISE_APPLICATION_ERROR(-20111, 'Angajatul are mai putin de 3 luni vechime!');
100    ELSIF :new.salariul > 100000 THEN
101        RAISE_APPLICATION_ERROR(-20112, 'Salariul maxim este de 100000 RON!');
102    END IF;
103 END;
104 /
105
106 -- VERIFICARI TRIGGER
107
108 UPDATE gamestop_angajati
109 SET salariul = 150000
```

Opened nodes (6); Saved files (0)

Line 104 Column 2 | Insert | Windows: C

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SQL Worksheet History

Worksheet

```
95 v_vechime NUMBER;
96 BEGIN
97     v_vechime := MONTHS_BETWEEN(SYSDATE, :OLD.data_angajare);
98     IF v_vechime < 3 THEN
99         RAISE_APPLICATION_ERROR(-20111,'Angajatul are mai putin de 3 luni vechime!');
100    ELSIF :new.salariul > 100000 THEN
101        RAISE_APPLICATION_ERROR(-20112,'Salariul maxim este de 100000 RON!');
102    END IF;
103 END;
104 /
105 -- VERIFICARI TRIGGER
106 UPDATE gamestop_angajati
107 SET salariul = 150000
108 WHERE id_angajat = 999;
109
110 UPDATE gamestop_angajati
111 SET salariul = 250000
112 WHERE id_angajat = 1;
113
114
```

Script Output | Task completed in 0,106 seconds

Trigger SALARIU_MAX_VECHIME compiled

Opened nodes (6): Saved files(0) | Line 104 Column 2 | Insert | Windows: C

Oracle SQL Developer : D:\SQL DEVELOPER\PL SQL FACULTATE SGBD\Tema 5 Proiect SGBD.sql

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Connections SQL Worksheet History ORACLE DATABASE

Worksheet

```
95 v_zechime NUMBER;
96 BEGIN
97     v_zechime := MONTHS_BETWEEN(SYSDATE, :OLD.data_angajare);
98     IF v_zechime < 3 THEN
99         RAISE_APPLICATION_ERROR(-20111,'Angajatul are mai putin de 3 luni vechime!');
100    ELSIF :new.salariul > 100000 THEN
101        RAISE_APPLICATION_ERROR(-20112,'Salariul maxim este de 100000 RON!');
102    END IF;
103 END;
104 /
105
106 -- VERIFICARI TRIGGER
107
108 UPDATE gamestop_angajati
109 SET salariul = 150000
110 WHERE id_angajat = 999;
111
```

Script Output Task completed in 0,043 seconds

```
Error starting at line : 108 in command -
UPDATE gamestop_angajati
SET salariul = 150000
WHERE id_angajat = 999
Error report -
ORA-20111: Angajatul are mai putin de 3 luni vechime!
ORA-06512: at "IONELT_53.SALARIU_MAX_VECHIME", line 6
ORA-04088: error during execution of trigger 'IONELT_53.SALARIU_MAX_VECHIME'
```

Opened nodes (6); Saved files(0) | Line 110 Column 24 | Insert | Windows: C

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Worksheet Query Builder

```
106 -- VERIFICARI TRIGGER
107
108 UPDATE gamestop_angajati
109 SET salariul = 150000
110 WHERE id_angajat = 999;
111
112 UPDATE gamestop_angajati
113 SET salariul = 250000
114 WHERE id_angajat = 1;
115
116 rollback;
117
118
119
120
121
122
```

Script Output Task completed in 0,052 seconds

```
Error starting at line : 112 in command -
UPDATE gamestop_angajati
SET salariul = 250000
WHERE id_angajat = 1
Error report -
ORA-20112: Salariul maxim este de 100000 RON!
ORA-06512: at "IONELT_53.SALARIU_MAX_VECHIME", line 8
ORA-04088: error during execution of trigger 'IONELT_53.SALARIU_MAX_VECHIME'
```