/\*Adaptare ex 2:

Creati un pachet ce include actiuni pentru adaugarea unui nou spital in tabelul hospitals\_t si

a unui nou medic in tabelul medics\_t . Se va verifica dacă judetul si numarul de telefon al spitalului exista. De asemenea se va verifica daca specializarea medicului exista.

CREATE table counties\_t(

county\_id NUMBER PRIMARY KEY,

county\_name VARCHAR(15) UNIQUE NOT NULL

);

INSERT INTO counties\_t VALUES(1, 'Bucuresti');

INSERT INTO counties\_t VALUES(2, 'Arges');

INSERT INTO counties\_t VALUES(3, 'Brasov');

INSERT INTO counties\_t VALUES(4, 'Valcea');

INSERT INTO counties\_t VALUES(5, 'Iasi');

ALTER TABLE hospitals\_t ADD county\_id NUMBER;

ALTER TABLE hospitals\_t ADD FOREIGN KEY(county\_id) REFERENCES counties\_t(county\_id);

UPDATE hospitals\_t SET county\_id = hospital\_id;

CREATE OR REPLACE PACKAGE medics\_hosp\_pack AS

PROCEDURE add\_hosp (hosp\_id hospitals\_t.hospital\_id%TYPE,

phone\_nr hospitals\_t.phone\_number%TYPE,

county\_id hospitals\_t.county\_id%TYPE);

PROCEDURE add\_medic (medic\_id medics\_t.medic\_id%TYPE,

medic\_name medics\_t.medic\_name%TYPE,

years\_exp medics\_t.years\_exp%TYPE,

spec\_id medics\_t.specialization\_id%TYPE);

FUNCTION valid\_spec(spec\_id medics\_t.specialization\_id%TYPE) RETURN NUMBER;

FUNCTION valid\_county(i\_county\_id counties\_t.county\_id%TYPE) RETURN NUMBER;

FUNCTION valid\_phone(phone\_number hospitals\_t.phone\_number%TYPE) RETURN NUMBER;

END medics\_hosp\_pack;

/

CREATE OR REPLACE PACKAGE BODY medics\_hosp\_pack AS

PROCEDURE add\_hosp (hosp\_id hospitals\_t.hospital\_id%TYPE,

phone\_nr hospitals\_t.phone\_number%TYPE,

county\_id hospitals\_t.county\_id%TYPE) IS

BEGIN

IF valid\_county(county\_id) = 0 THEN

DBMS\_OUTPUT.PUT\_LINE('Invalid hospital county ' || county\_id);

ELSE IF valid\_phone(phone\_nr) = 0 THEN

DBMS\_OUTPUT.PUT\_LINE('Invalid hospital phone number ' || phone\_nr);

ELSE

INSERT INTO hospitals\_t VALUES(hosp\_id, phone\_nr, county\_id);

END IF;

END IF;

END add\_hosp;

PROCEDURE add\_medic (medic\_id medics\_t.medic\_id%TYPE,

medic\_name medics\_t.medic\_name%TYPE,

years\_exp medics\_t.years\_exp%TYPE,

spec\_id medics\_t.specialization\_id%TYPE) IS

BEGIN

IF valid\_spec(spec\_id) = 0 THEN

DBMS\_OUTPUT.PUT\_LINE('Invalid medic specialization ' || spec\_id);

ELSE

INSERT INTO medics\_t VALUES(medic\_id, medic\_name, years\_exp, spec\_id);

END IF;

END add\_medic;

FUNCTION valid\_spec(spec\_id medics\_t.specialization\_id%TYPE) RETURN NUMBER IS ret\_val NUMBER;

BEGIN

SELECT COUNT(\*) INTO ret\_val FROM specializations\_t WHERE specialization\_id = spec\_id;

RETURN ret\_val;

END;

FUNCTION valid\_county(i\_county\_id counties\_t.county\_id%TYPE) RETURN NUMBER IS ret\_val NUMBER;

BEGIN

SELECT COUNT(\*) INTO ret\_val FROM counties\_t WHERE county\_id = i\_county\_id;

RETURN ret\_val;

END;

FUNCTION valid\_phone(phone\_number hospitals\_t.phone\_number%TYPE) RETURN NUMBER IS

ret\_val NUMBER := 1;

curr\_char CHAR(1);

BEGIN

FOR i IN 1..length(phone\_number) LOOP

curr\_char := substr(phone\_number, i, 1);

IF curr\_char < '0' OR curr\_char > '9' THEN

ret\_val := 0;

END IF;

END LOOP;

RETURN ret\_val;

END;

END medics\_hosp\_pack;

/

EXECUTE medics\_hosp\_pack.add\_hosp(12, '0758.93022', 1);

EXECUTE medics\_hosp\_pack.add\_medic(8, 'Reaper', 4, 1);

select \* from medics\_t;

select \* from hospitals\_t;

BEGIN

medics\_hosp\_pack.add\_hosp(15, '0458330231', 2);

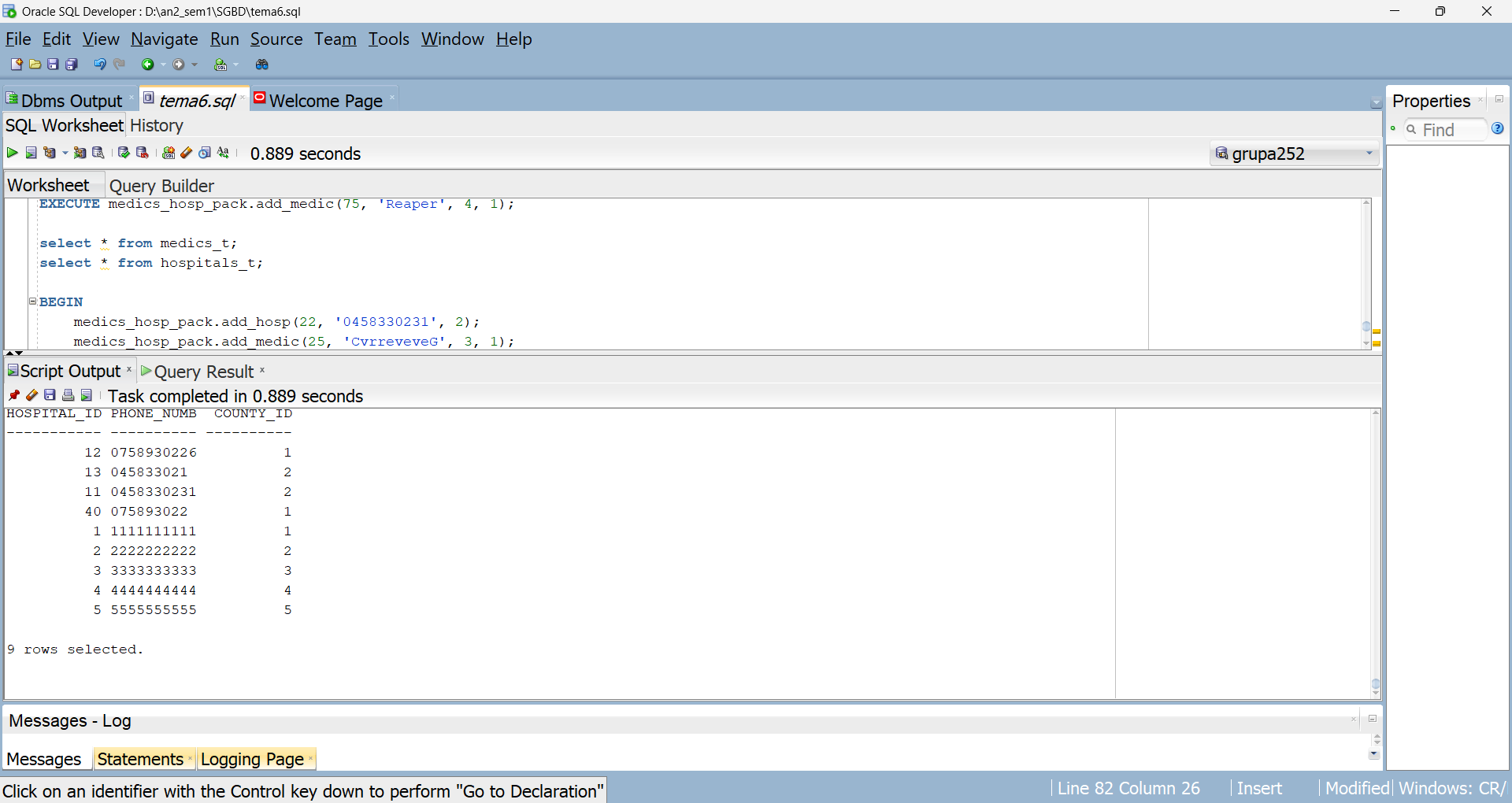
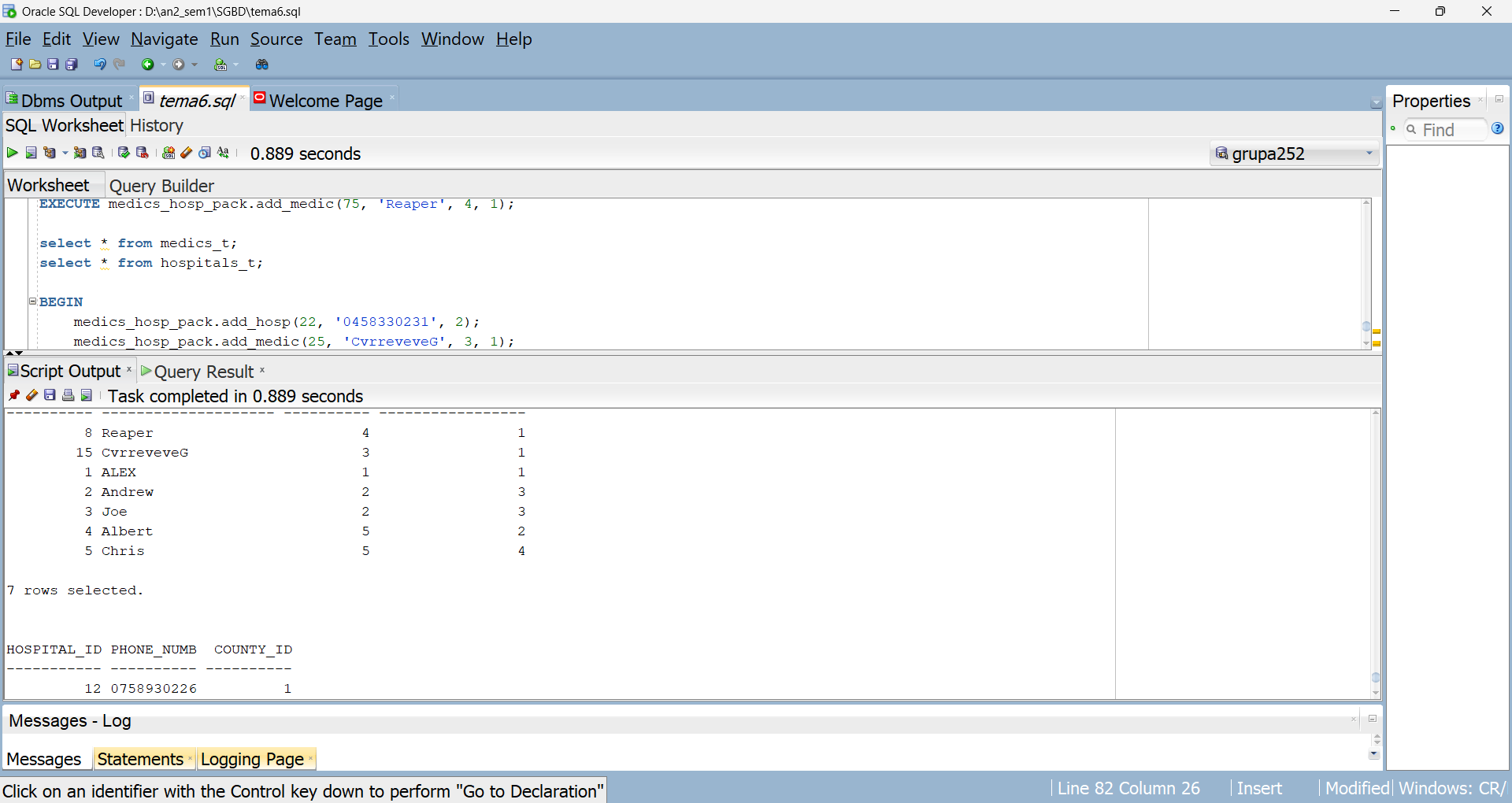
medics\_hosp\_pack.add\_medic(15, 'CvrreveveG', 3, 1);

END;

/

SELECT \* FROM medics\_t;

SELECT \* FROM hospitals\_t;

Pentru inputuri gresite:

