1. Check constraint on uni numbers 9, 29, 32

[cssc0030@edoras ~]$ clear

[cssc0030@edoras ~]$ sqlplus st30/cs514@cs514

SQL\*Plus: Release 11.2.0.4.0 Production on Tue Aug 15 13:31:45 2017

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ERROR:

ORA-28002: the password will expire within 99 days

SQL> alter table infobb02 add check(uni <>'29');

Table altered.

SQL> insert into infobb02 (empno, uni) values('791', '29');

insert into infobb02 (empno, uni) values('791', '29')

\*

ERROR at line 1:

ORA-02290: check constraint (ST30.SYS\_C0019716) violated

SQL> alter table infobb02 add check(uni <>'32');

Table altered.

SQL> insert into infobb02 (empno, uni) values('791', '32');

insert into infobb02 (empno, uni) values('791', '32')

\*

ERROR at line 1:

ORA-02290: check constraint (ST30.SYS\_C0019718) violated

SQL> alter table infobb02 add check(uni <>'9');

Table altered.

SQL> insert into infobb02 (empno, uni) values('791', '9');

insert into infobb02 (empno, uni) values('791', '9')

\*

ERROR at line 1:

ORA-02290: check constraint (ST30.SYS\_C0019719) violated

SQL>

2. Java

[cssc0030@edoras ~]$ clear

[cssc0030@edoras ~]$ vi hw4java.java

import java.io.\*;

import java.util.\*;

import java.sql.\*;

public class hw4java {

public static void main(String [] aa) {

String url;

url = "jdbc:oracle:thin:@moria.sdsu.edu:1521:cs514";

Statement stmt;

Connection con;

Scanner sc = new Scanner(System.in);

int a = sc.nextInt();

String query = ("select average from infobb02 where empno = " + "'" + a + "'");

try {

Class.forName("oracle.jdbc.driver.OracleDriver").newInstance();

}

catch (Exception e) {

System.out.println("MR.UnitSitQueries.constructor.Exception: " +

e);

}

try {

con = DriverManager.getConnection(url,aa[0],aa[1]);

stmt = con.createStatement();

ResultSet rs = stmt.executeQuery(query);

while (rs.next()) {

String s1 = rs.getString(1);

if (a.toString() = "null"){

System.out.println("employee with eid" + a + "has no batting average");

}

else if (a < 200) {

System.out.println("employee with eid" + a + "has an average below the Mendoza line");

}

else

System.out.println("employee with eid" + a + "has a batting average of" + s1);

}

stmt.close();

con.close();

}

catch (SQLException e) {System.out.println("OOPS" + e.getMessage());}

}

"hw4java.java" 44L, 1335C 29,11 Top

PROOF IT WORKS

[cssc0030@edoras ~]$ clear

[cssc0030@edoras ~]$ java -cp ~cssc0030/classes12.zip:. hw4java st30 cs514

777

270 [cssc0030@edoras ~]$

^

That’s orestes’s empno and average!

3. Doubles tennis pairs

[cssc0030@edoras ~]$ clear

[cssc0030@edoras ~]$ sqlplus st30/cs514@cs514

SQL\*Plus: Release 11.2.0.4.0 Production on Tue Aug 15 13:42:49 2017

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ERROR:

ORA-28002: the password will expire within 99 days

Connected to:

Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production

With the Partitioning, Oracle Label Security, OLAP, Data Mining

and Real Application Testing options

SQL> select c.ename as "coach", i.ename as "infielder" from empbb02 c, empbb02 i where c.deptno = 40 and i.deptno =10;

coach infielder

---------------- ----------------

rickey gehrig

rickey minoso

rickey sandberg

rickey cey

lasorda gehrig

lasorda minoso

lasorda sandberg

lasorda cey

bochy gehrig

bochy minoso

bochy sandberg

coach infielder

---------------- ----------------

bochy cey

berra gehrig

berra minoso

berra sandberg

berra cey

16 rows selected.

SQL>

4. Stored function

[cssc0030@edoras ~]$ vi getUni.fn

CREATE OR REPLACE FUNCTION getUni(name in empbb02.ename%TYPE)

RETURN infobb02.uni%TYPE as uninum infobb02.uni%type;

BEGIN

SELECT uni

INTO uninum

FROM empbb02, infobb02

WHERE empbb02.empno = infobb02.empno AND name = ename;

RETURN (uninum);

END;

/

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"getUni.fn" 10L, 293C 10,3 All

[cssc0030@edoras ~]$ clear

[cssc0030@edoras ~]$ sqlplus st30/cs514@cs514

SQL\*Plus: Release 11.2.0.4.0 Production on Tue Aug 15 14:45:35 2017

Copyright (c) 1982, 2013, Oracle. All rights reserved.

ERROR:

ORA-28002: the password will expire within 99 days

Connected to:

Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production

With the Partitioning, Oracle Label Security, OLAP, Data Mining

and Real Application Testing options

SQL> start getUni.fn

Function created.

SQL> select ename, getUni(ename) as " Minoso's Uni number" from empbb02 where ename = 'minoso';

ENAME

----------------

Minoso's Uni number

--------------------------------------------------------------------------------

minoso

27

SQL>

5. Stored procedure

7. Whip

[cssc0030@edoras ~]$ clear

[cssc0030@edoras ~]$ sqlplus st30/cs514@cs514

SQL\*Plus: Release 11.2.0.4.0 Production on Tue Aug 15 16:31:29 2017

Copyright (c) 1982, 2013, Oracle. All rights reserved.

ERROR:

ORA-28002: the password will expire within 99 days

Connected to:

Oracle Database 11g Enterprise Edition Release 11.2.0.4.0 - 64bit Production

With the Partitioning, Oracle Label Security, OLAP, Data Mining

and Real Application Testing options

SQL> set pages 500

SQL> select \* from infobb02;

EMPNO FNAME NICK UNI AVERAGE ERA HOFDATE

----- ---------- --------------- ---- ---------- ---------- ---------

712 branch 56 01-JAN-67

735 tommy 62 01-JAN-97

707 bruce 64 220

777 orestes minnie 27 270 32 01-JAN-94

763 lou iron horse 14 350 01-JAN-39

782 stan the man 19 342 01-JAN-14

798 larry yogi 66 290 01-JAN-72

788 ron penguin 35 287 02-JAN-17

730 willie say hey kid 24 325 01-JAN-79

755 randy the big unit 8 123 2.15 01-JAN-15

744 mordecai 3 fingers 25 168 3.27 01-JAN-49

721 ryne rhino 17 294 01-JAN-05

799 van lingle 31 220 2.82 01-JAN-74

720 ted teddy ballgame 10 350 01-JAN-87

766 ivan pudge 4 339 01-JAN-17

15 rows selected.

SQL> alter table infobb02 add whip VARCHAR2(5);

Table altered.

SQL> update infobb02 set whip = '1.171' where empno = '755';

1 row updated.

SQL> update infobb02 set whip = '1.092' where empno = '744';

1 row updated.

SQL> update infobb02 set whip = '1.337' where empno = '799';

1 row updated.

SQL> update infobb02 set whip = 'null' where empno = '712';

1 row updated.

SQL> update infobb02 set whip ='null' where empno = '735';

1 row updated.

SQL> update infobb02 set whip = 'null' where empno = '707';

1 row updated.

SQL> update infobb02 set whip = 'null' where empno = '777';

1 row updated.

SQL> update infobb02 set whip ='null' where empno = '763';

1 row updated.

SQL> update infobb02 set whip ='null' where empno ='782';

1 row updated.

SQL> update infobb02 set whip ='null' where empno = '798';

1 row updated.

SQL> update infobb02 set whip ='null' where empno ='788';

1 row updated.

SQL> update infobb02 set whip = 'null' where empno = '730';

1 row updated.

SQL> update infobb02 set whip = 'null' where empno = '721';

1 row updated.

SQL> update infobb02 set whip = 'null' where empno ='720';

1 row updated.

SQL> update infobb02 set whip = 'null' where empno = '766';

1 row updated.

SQL> select \* from infobb02;

EMPNO FNAME NICK UNI AVERAGE ERA HOFDATE WHIP

----- ---------- --------------- ---- ---------- ---------- --------- -----

712 branch 56 01-JAN-67 null

735 tommy 62 01-JAN-97 null

707 bruce 64 220 null

777 orestes minnie 27 270 32 01-JAN-94 null

763 lou iron horse 14 350 01-JAN-39 null

782 stan the man 19 342 01-JAN-14 null

798 larry yogi 66 290 01-JAN-72 null

788 ron penguin 35 287 02-JAN-17 null

730 willie say hey kid 24 325 01-JAN-79 null

755 randy the big unit 8 123 2.15 01-JAN-15 1.171

744 mordecai 3 fingers 25 168 3.27 01-JAN-49 1.092

721 ryne rhino 17 294 01-JAN-05 null

799 van lingle 31 220 2.82 01-JAN-74 1.337

720 ted teddy ballgame 10 350 01-JAN-87 null

766 ivan pudge 4 339 01-JAN-17 null

15 rows selected.

SQL>