

CPIT340 - VAR

# Homework #03

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## Group Members

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DECLARE

```
CURSOR bestAthletes IS
SELECT ATHLETE, GENDER, SPORT, NOC,
COUNT(CASE WHEN MEDAL = 'Gold' THEN 1 END) as Gold,
COUNT(CASE WHEN MEDAL = 'Silver' THEN 1 END) as Silver,
COUNT(CASE WHEN MEDAL = 'Bronze' THEN 1 END) as Bronze
from OLYM.OLYM_MEDALS_VIEW
GROUP BY SPORT, NOC, ATHLETE, GENDER
ORDER BY OLYM.OLYM_MEDALS_VIEW.ATHLETE;
```

```
sport_var OLYM.OLYM_MEDALS_VIEW.SPORT%type;
noc_var OLYM.OLYM_MEDALS_VIEW.NOC%type;
gender_var OLYM.OLYM_MEDALS_VIEW.GENDER%type;
athelete_var OLYM.OLYM_MEDALS_VIEW.ATHLETE%type;
```

```
goldNum integer;
silverNum integer;
bronzeNum integer;
totalNum integer;
```

```
PROCEDURE bestAthletes_proc ( v_sport in OLYM.OLYM_MEDALS_VIEW.SPORT%type default 'empty', v_gender in
OLYM.OLYM_MEDALS_VIEW.GENDER%type default 'empty', v_NOC in OLYM.OLYM_MEDALS_VIEW.NOC%type
default 'empty')
```

```
IS
```

```
BEGIN
```

```
OPEN bestAthletes;
```

```
LOOP
```

```
FETCH bestAthletes into athelete_var, gender_var, sport_var, noc_var, goldNum, silverNum, bronzeNum;
```

```
EXIT WHEN bestAthletes%notfound;
```

```
totalNum := 0;
```

```
totalNum := goldNum + silverNum + bronzeNum;
```

```
if totalNum > 5
```

```
then
```

```
if v_sport != 'empty' and v_gender != 'empty' and v_NOC != 'empty'
```

```
then
```

```
if gender_var = v_gender and sport_var = v_sport and v_NOC = noc_var
```

```

then
    dbms_output.put_line(' ' || RPAD(athlete_var, 35) || ' ' || goldNum || ' ' || silverNum || ' ' || bronzeNum ||
' | ' || RPAD(totalNum, 3) || ');
    end if;

-----

elsif v_sport != 'empty' and v_gender != 'empty'
then
    if gender_var = v_gender and sport_var = v_sport
    then
        dbms_output.put_line(' ' || RPAD(athlete_var, 35) || ' ' || goldNum || ' ' || silverNum || ' ' || bronzeNum ||
' | ' || RPAD(totalNum, 3) || ');
        end if;

-----

    elsif v_sport != 'empty' and v_NOC != 'empty'
    then
        if noc_var = v_NOC and sport_var = v_sport
        then
            dbms_output.put_line(' ' || RPAD(athlete_var, 35) || ' ' || goldNum || ' ' || silverNum || ' ' || bronzeNum ||
' | ' || RPAD(totalNum, 3) || ');
            end if;

-----

        elsif v_NOC != 'empty' and v_gender != 'empty'
        then
            if gender_var = v_gender and noc_var = v_NOC
            then
                dbms_output.put_line(' ' || RPAD(athlete_var, 35) || ' ' || goldNum || ' ' || silverNum || ' ' || bronzeNum ||
' | ' || RPAD(totalNum, 3) || ');
                end if;

-----

            elsif v_NOC != 'empty'
            then
                if noc_var = v_NOC

```

```

then
    dbms_output.put_line(' ' || RPAD(athlete_var, 35) || ' ' || goldNum || ' ' || silverNum || ' ' || bronzeNum ||
' | ' || RPAD(totalNum, 3) || ');
    end if;

-----

elseif v_gender != 'empty'
then
    if gender_var = v_gender
    then
        dbms_output.put_line(' ' || RPAD(athlete_var, 35) || ' ' || goldNum || ' ' || silverNum || ' ' || bronzeNum ||
' | ' || RPAD(totalNum, 3) || ');
        end if;

-----

elseif v_sport != 'empty'
then
    if sport_var = v_sport
    then
        dbms_output.put_line(' ' || RPAD(athlete_var, 35) || ' ' || goldNum || ' ' || silverNum || ' ' || bronzeNum ||
' | ' || RPAD(totalNum, 3) || ');
        end if;

-----

else
    dbms_output.put_line(' ' || RPAD(athlete_var, 35) || ' ' || goldNum || ' ' || silverNum || ' ' || bronzeNum ||
' | ' || RPAD(totalNum, 3) || ');
    end if;

-----

end if;
END LOOP;
close bestAthletes;
end;

BEGIN

```

```

dbms_output.put_line('Women in Aquatics');
dbms_output.put_line(rpad('-', 72, '-'));
dbms_output.put_line(' | ' || RPAD('Athlete', 35) || ' | Gold | Silver | Bronze | Total |');
dbms_output.put_line(rpad('-', 72, '-'));
bestAthletes_proc(v_sport => 'Aquatics', v_gender => 'Women');

dbms_output.put_line('Australian athletes');
dbms_output.put_line(rpad('-', 72, '-'));
dbms_output.put_line(' | ' || RPAD('Athlete', 35) || ' | Gold | Silver | Bronze | Total |');
dbms_output.put_line(rpad('-', 72, '-'));



bestAthletes_proc(v_NOC => 'AUS');

dbms_output.put_line('Gymnastics athletes');
dbms_output.put_line(rpad('-', 72, '-'));
dbms_output.put_line(' | ' || RPAD('Athlete', 35) || ' | Gold | Silver | Bronze | Total |');
dbms_output.put_line(rpad('-', 72, '-'));

bestAthletes_proc(v_sport => 'Gymnastics');

END;

```

 Live SQL

SQL Worksheet

Statement processed.

Women in Aquatics

Athlete	Gold	Silver	Bronze	Total
BABASHOFF, Shirley Farber	2	6	0	8
BEARD, Amanda	2	4	1	7
COUGHLIN, Natalie	3	4	4	11
COVENTRY, Kirsty	2	4	1	7
DE BRUIJN, Inge	4	2	2	8
EGERSZEGI, Krisztina	5	1	1	7
ENDER, Kornelia	4	4	0	8
FRASER, Dawn	4	4	0	8
GUO, Jingjing	4	2	0	6
HASE, Dagmar	1	5	1	7
JONES, Leisel	3	4	1	8
MARTINO, Angel	3	0	3	6
O'NEILL, Susan	2	4	2	8
OTTO, Kristin	6	0	0	6
POLLACK, Andrea	3	3	0	6
THOMAS, Petria	3	4	1	8
THOMPSON, Jenny	8	3	1	12
TORRES, Dara	4	4	4	12
TRICKETT, Lisbeth	3	1	2	6
VAN ALPHICK, Franziska	0	4	6	10
VAN DYKEN, Amy	6	0	0	6

Australian athletes



Athlete	Gold	Silver	Bronze	Total
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 Live SQL

SQL Worksheet

VAN ALPHICK, Franziska

VAN DYKEN, Amy

Australian athletes

Athlete	Gold	Silver	Bronze	Total
FRASER, Dawn	4	4	0	8
HACKETT, Grant	3	3	1	7
JONES, Leisel	3	4	1	8
KLIM, Michael	2	3	1	6
O'NEILL, Susan	2	4	2	8
ROSE, Murray	4	1	1	6
STRICKLAND-DE LA HUNTY, Shirley	3	1	3	7
THOMAS, Petria	3	4	1	8
THORPE, Ian	5	3	1	9
TRICKETT, Lisbeth	3	1	2	6

Gymnastics athletes

Athlete	Gold	Silver	Bronze	Total
AMANAR, Simona	3	1	3	7
ANDRIANOV, Nikolay	7	5	3	15
ASTAKHOVA, Polina	5	2	3	10
CASLAVSKA, Vera	7	4	0	11
CHUKARIN, Viktor Ivanovich	7	3	1	11
COMANECI, Nadia	5	3	1	9
DITYATIN, Aleksandr	3	6	1	10
ENDO, Yukio	5	2	0	7
EYSER, George	3	2	1	6
FREY, Konrad	3	1	2	6

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SQL Worksheet

TRICKETT, Lisbeth	3	1	2	6
Gymnastics athletes				
Athlete	Gold	Silver	Bronze	Total
AMANAR, Simona	3	1	3	7
ANDRIANOV, Nikolay	7	5	3	15
ASTAKHOVA, Polina	5	2	3	10
CASLAVSKA, Vera	7	4	0	11
CHUKARIN, Viktor Ivanovich	7	3	1	11
COMANECI, Nadia	5	3	1	9
DITYATIN, Aleksandr	3	6	1	10
ENDO, Yukio	5	2	0	7
EYSER, George	3	2	1	6
FREY, Konrad	3	1	2	6
GOROKHOVSKAYA, Mariya	2	5	0	7
HEIDA, Anton	5	1	0	6
JANZ, Karin	2	3	2	7
KATO, Sawao	8	3	1	12
KELETI, Agnes	5	3	2	10
KENMOTSU, Eizo	3	3	3	9
KHORKINA, Svetlana	2	4	1	7
KIM, Nelli	5	1	0	6
KORBUT, Olga	4	2	0	6
KORONDI, Margit	2	2	4	8
LATYNINA, Larisa	9	5	4	18
LI, Ning	3	2	1	6
LI, Xiaosahuang	2	3	1	6
MACK, Eugen	2	4	2	8

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Live SQL

SQL Worksheet

DITYATIN, Aleksandr	3	6	1	10
ENDO, Yukio	5	2	0	7
EYSER, George	3	2	1	6
FREY, Konrad	3	1	2	6
GOROKHOVSKAYA, Mariya	2	5	0	7
HEIDA, Anton	5	1	0	6
JANZ, Karin	2	3	2	7
KATO, Sawao	8	3	1	12
KELETI, Agnes	5	3	2	10
KENMOTSU, Eizo	3	3	3	9
KHORKINA, Svetlana	2	4	1	7
KIM, Nelli	5	1	0	6
KORBUT, Olga	4	2	0	6
KORONDI, Margit	2	2	4	8
LATYNINA, Larisa	9	5	4	18
LI, Ning	3	2	1	6
LI, Xiaosahuang	2	3	1	6
MACK, Eugen	2	4	2	8
MANINA, Tamara	2	3	1	6
MIEZ, Georges	4	3	1	8
MILLER, Shannon	2	2	3	7
MILOSOVICI, Lavinia Corina	2	1	3	6
MURATOVA, Sofiya	2	2	4	8
NAKAYAMA, Akinori	6	2	2	10
NEMOV, Alexei	4	2	6	12
ONO, Takashi	5	4	4	13
SAVOLAINEN, Heikki	2	1	6	9
SCHERBO, Vitaly	6	0	0	6
SCHWARZMANN, Karl-Alfred	3	1	2	6
SHAKHMETOV, Boris	7	4	2	13

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## SQL Worksheet

KORBUT, Olga	4	2	0	6
KORONDI, Margit	2	2	4	8
LATYNIINA, Larisa	9	5	4	18
LI, Ning	3	2	1	6
LI, Xiaosahuang	2	3	1	6
MACK, Eugen	2	4	2	8
MAHINA, Tamara	2	3	1	6
MIEZ, Georges	4	3	1	8
MILLER, Shannon	2	2	3	7
MILISOVICI, Lavinia Corina	2	1	3	6
MURATOVA, Sofiya	2	2	4	8
NAKAYAMA, Akinori	6	2	2	10
NEMOV, Alexei	4	2	6	12
ONO, Takashi	5	4	4	13
SAVOLAINEN, Heikki	2	1	6	9
SCHERBO, Vitaly	6	0	0	6
SCHWARZMANN, Karl-Alfred	3	1	2	6
SHAKHLIN, Boris	7	4	2	13
SILIVAS, Daniela	3	2	1	6
STALDER, Josef	1	3	3	7
STUKELJ, Leon	3	1	2	6
TAKEMOTO, Masao	1	3	3	7
TASS LEMHENYI, Olga	1	3	2	6
TITOV, Yuri	1	5	3	9
TSUKAHARA, Mitsuo	5	1	3	9
TSURUMI, Shuji	2	3	1	6
TURISCHEVA, Lyudmila	4	3	2	9
VORONIN, Mikhail	2	6	1	9
WEINGÄRTNER, Hermann	3	2	1	6