COMP23111 - Lab Exercise 5

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December 12, 2014

1   Part 1 - SQL Triggers

```
SQL>
SQL> DROP TRIGGER ContractInfo_duration_calc;

Trigger dropped.

SQL>
SQL> UPDATE ContractInfo SET duration = 0;

13 rows updated.

SQL> DELETE FROM ContractInfo WHERE HasContract = 'Goldfrat' and date_from = '10-oct-2008' and date_to = '9-oct-2010';

1 row deleted.

SQL>
SQL> CREATE OR REPLACE TRIGGER ContractInfo_duration_calc
  2  BEFORE
  3  UPDATE OR INSERT
  4  ON ContractInfo
  5  FOR EACH ROW
  6  DECLARE
  7  BEGIN
  8          :NEW.duration := :NEW.date_to - :NEW.date_from;
  9  END ContractInfo_duration_calc;
 10  /

Trigger created.

SQL>
SQL> SHOW ERRORS TRIGGER ContractInfo_duration_calc
No errors.
SQL>
SQL> -- SHOW IT WORKS
SQL> SELECT * FROM ContractInfo;

HASCONTRACT                            DATE_FROM DATE_TO     DURATION
-------------------------------------- --------- --------- ----------
Goldfrat                               10-OCT-10 09-OCT-14          0
Simon Palm                             20-AUG-05 19-AUG-07          0
Simon Palm                             20-SEP-12 19-AUG-14          0
Flut                                   10-AUG-09 09-SEP-14          0
John Cliff                             10-MAR-06 10-APR-12          0
Jay Blancard                           01-JAN-04 20-JUN-14          0
Palmer John                            12-FEB-06 01-JUN-08          0
Zero7                                  31-DEC-11 26-FEB-16          0
JZ                                     24-MAR-05 30-DEC-07          0
Scandal                                22-OCT-12 19-NOV-16          0
JK Rowl                                19-APR-03 06-JAN-09          0

HASCONTRACT                            DATE_FROM DATE_TO     DURATION
-------------------------------------- --------- --------- ----------
PJ Blox                                21-JUN-08 16-JUL-13          0

12 rows selected.

SQL>
SQL> UPDATE ContractInfo
  2  SET duration = duration;

12 rows updated.

SQL>
SQL> INSERT INTO ContractInfo VALUES
  2  ('Goldfrat', '10-oct-2008', '09-oct-2010', 0);

1 row created.

SQL>
SQL> SELECT * FROM ContractInfo;

HASCONTRACT                            DATE_FROM DATE_TO     DURATION
-------------------------------------- --------- --------- ----------
Goldfrat                               10-OCT-10 09-OCT-14       1460
Simon Palm                             20-AUG-05 19-AUG-07        729
Simon Palm                             20-SEP-12 19-AUG-14        698
Flut                                   10-AUG-09 09-SEP-14       1856
John Cliff                             10-MAR-06 10-APR-12       2223
Jay Blancard                           01-JAN-04 20-JUN-14       3823
Palmer John                            12-FEB-06 01-JUN-08        840
Zero7                                  31-DEC-11 26-FEB-16       1518
JZ                                     24-MAR-05 30-DEC-07       1011
Scandal                                22-OCT-12 19-NOV-16       1489
JK Rowl                                19-APR-03 06-JAN-09       2089

HASCONTRACT                            DATE_FROM DATE_TO     DURATION
-------------------------------------- --------- --------- ----------
PJ Blox                                21-JUN-08 16-JUL-13       1851
Goldfrat                               10-OCT-08 09-OCT-10        729

13 rows selected.

SQL>
SQL>
SQL>
SQL> SPOOL OFF
```

2   Part 2 - SQL Procedures