



K. J. Somaiya College of Engineering, Mumbai-77
(Autonomous College Affiliated to University of Mumbai)

Batch: A1

Roll No.:

16010120006 – DIKSHITA CHALKE

16010120015 – YASH GAVADE

16010120018 – JINAY JAIN

Experiment / assignment / tutorial No. 6(Lab work)

Grade: AA / AB / BB / BC / CC / CD /DD

Title: PROCEDURE & CURSOR

The following creates SOLDIER procedure named Transfer that Transfer specific amount of SALARY from SOLDIERS SALARY to another.

CREATE OR REPLACE PROCEDURE Transfer()

LANGUAGE plpgsql

AS \$\$

BEGIN

-- subtracting the amount from the SOLDIER's SALARY

UPDATE SOLDIERS

SET SALARY = SALARY - 10000

WHERE SSNO = 609;

-- adding the amount to the SOLDIER's SALARY

UPDATE SOLDIERS

SET SALARY = SALARY + 10000

WHERE SSNO = 608;

COMMIT;

END;

\$\$;



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CALL Transfer();

SELECT *

FROM SOLDIERS

Query Editor

Query History

```

335 UPDATE SOLDIERS
336 SET SALARY = SALARY - 10000
337 WHERE SSNO = 609;
338
339 -- adding the amount to the SOLDIER's SALARY
340 UPDATE SOLDIERS
341 SET SALARY = SALARY + 10000
342 WHERE SSNO = 608;
343
344 COMMIT;
345 END;
346 $$;
347
348
349 CALL Transfer();
350
351 SELECT *
352 FROM SOLDIERS

```

Data Output

Explain

Messages

Notifications

	ssno [PK] integer	mo integer	name character varying (50)	dateofbirth date	rank character varying (25)	location character (25)	salary integer
1	601	14	SOMNATH SHARMA	1947-02-12	MAJOR	KASHMIR	800000
2	602	13	VIKRAM BATRA	1950-02-11	GENREAL MAJOR	GOA	300000
3	603	15	SATISH KOLI	1949-02-10	CAPTAIN	JAMMU	80000
4	604	16	SOHAM PATIL	1948-10-09	BRIGADIER	PUNJAB	140000
5	605	17	VISHESH NAIK	1947-09-08	COLONEL	DELHI	120000
6	606	12	NIRMAL SINGH	1946-08-07	GENREAL MAJOR	GOA	300000
7	607	18	YOGENDRA SINGH	1949-07-06	CAPTAIN	JAMMU	80000



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```
//CURSOR
```

```
//FITTING INTO RECORDS WITH A CURSOR
```

```
DECLARE
```

```
TYPE SCurTyp IS REF CURSOR;
```

```
SSNO SCurTyp;
```

```
RNO emp%ROWTYPE;
```

```
NAME VARCHAR2(200);
```

```
RANK VARCHAR2(15) := 'MAJOR';
```

```
BEGIN
```

```
sql_stmt := 'SELECT * FROM SOLDIERS WHERE SSNO = :609';
```

```
OPEN SOLDIER_REC FOR sql_stmt USING RANK;
```

```
LOOP
```

```
    FETCH SSNO INTO RNO;
```

```
    EXIT WHEN SOLDIER_REC%NOTFOUND;
```

```
    -- process record
```

```
END LOOP;
```

```
CLOSE SSNO;
```

```
END;
```



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```
359 DECLARE
360     TYPE SCurTyp IS REF CURSOR;
361     SSNO SCurTyp;
362     RNO emp%ROWTYPE;
363     NAME VARCHAR2(200);
364     RANK VARCHAR2(15) := 'MAJOR';
365 BEGIN
366     sql_stmt := 'SELECT * FROM SOLDIERS WHERE SSNO = :609';
367     OPEN SOLDIER_REC FOR sql_stmt USING RANK;
368 LOOP
369     FETCH SSNO INTO RNO;
370     EXIT WHEN SOLDIER_REC%NOTFOUND;
371     -- process record
372 END LOOP;
373 CLOSE SSNO;
374 END;
375
376
```

Data Output Explain Messages Notifications

ERROR: syntax error at or near "SCurTyp"
LINE 3: TYPE SCurTyp IS REF CURSOR;
^
SQL state: 42601
Character: 18