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Subject: DBSL – Assignment 06

Code:

```
CREATE TABLE new_ems(  
    emp_id INT PRIMARY KEY NOT NULL,  
    emp_name VARCHAR(200)  
);  
  
CREATE TABLE old_ems(  
    emp_id INT PRIMARY KEY NOT NULL,  
    emp_name VARCHAR(200)  
);  
  
INSERT INTO old_ems(emp_id, emp_name)  
VALUES (1, 'Natasha'), (2, 'Tony'), (3, 'Steve');  
  
INSERT INTO new_ems(emp_id, emp_name)  
VALUES (4, 'Peter'), (5, 'Vision'), (3, 'Steve');  
  
DELIMITER //  
  
CREATE PROCEDURE update_old()  
BEGIN  
    DECLARE done INT DEFAULT FALSE;  
    DECLARE cur_emp_id INT;  
    DECLARE cur_emp_name VARCHAR(200);  
  
    DECLARE cur CURSOR FOR  
        SELECT emp_id, emp_name FROM new_ems WHERE emp_id NOT IN (SELECT e  
mp_id FROM old_ems);  
  
    DECLARE CONTINUE HANDLER FOR NOT FOUND SET done = TRUE;  
  
    OPEN cur;  
  
emp_loop: LOOP  
    FETCH cur INTO cur_emp_id, cur_emp_name;  
  
    IF done THEN  
        LEAVE emp_loop;  
    END IF;
```

```

        INSERT INTO old_emps(emp_id, emp_name)
        VALUES(cur_emp_id, cur_emp_name);
    END LOOP;

    CLOSE cur;
END //

DELIMITER ;

```

Output:

Tables:

```

mysql> use a06_database;
Database changed
mysql> show tables;
+-----+
| Tables_in_a06_database |
+-----+
| new_emps                |
| old_emps                |
+-----+
2 rows in set (0.00 sec)

```

Schema of the tables:

```

mysql> desc old_emps;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id | int       | NO   | PRI | NULL    |       |
| emp_name | varchar(200) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

```

mysql> desc new_emps;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| emp_id | int       | NO   | PRI | NULL    |       |
| emp_name | varchar(200) | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

```

Initial data in old_emps tables:

```
mysql> select * from old_emps;
+-----+-----+
| emp_id | emp_name |
+-----+-----+
|      1 | Natasha  |
|      2 | Tony     |
|      3 | Steve    |
+-----+-----+
3 rows in set (0.00 sec)
```

Initial data in new_emps table:

```
mysql> select * from new_emps;
+-----+-----+
| emp_id | emp_name |
+-----+-----+
|      3 | Steve    |
|      4 | Peter    |
|      5 | Vision   |
+-----+-----+
3 rows in set (0.00 sec)
```

Using Cursor to Update the old_emps table:

```
mysql> call update_old();
Query OK, 0 rows affected (0.01 sec)

mysql> select * from old_emps;
+-----+-----+
| emp_id | emp_name |
+-----+-----+
|      1 | Natasha  |
|      2 | Tony     |
|      3 | Steve    |
|      4 | Peter    |
|      5 | Vision   |
+-----+-----+
5 rows in set (0.00 sec)
```

Explanation: There were three employees in old_emps table and three in new_emps table. We are updating old_emps table with new_emps table. As employee with id 3 is already present in old_emps table it should not be added again while employees with id 4 and 5 are new entries for old_emps table so that should be added. So as a result our old_emps table should contain 5 employees which is shown in the above screenshot.

Thank You!