Note that LAST_INSERT_ID() is tied to the session, so even if multiple connections are inserting into the same table, each with get its own id.

Your client API probably has an alternative way of getting the LAST_INSERT_ID() without actually performing a **SELECT** and handing the value back to the client instead of leaving it in an @variable inside MySQL. Such is usually preferable.

Longer, more detailed, example

The "normal" usage of IODKU is to trigger "duplicate key" based on some UNIQUE key, not the AUTO_INCREMENT PRIMARY KEY. The following demonstrates such. Note that it does *not* supply the id in the INSERT.

Setup for examples to follow:

```
CREATE TABLE iodku (
   id INT AUTO_INCREMENT NOT NULL,
   name VARCHAR(99) NOT NULL,
   misc INT NOT NULL,
   PRIMARY KEY(id),
   UNIQUE(name)
) ENGINE=InnoDB;
INSERT INTO iodku (name, misc)
   VALUES
   ('Leslie', 123),
   ('Sally', 456);
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0
+---+
| id | name | misc |
+----+
| 1 | Leslie | 123 |
| 2 | Sally | 456 |
+----+
```

The case of IODKU performing an "update" and LAST_INSERT_ID() retrieving the relevant id:

The case where IODKU performs an "insert" and LAST_INSERT_ID() retrieves the new id:

```
ON DUPLICATE KEY UPDATE
id = LAST_INSERT_ID(id),
misc = VALUES(misc);
SELECT LAST_INSERT_ID(); -- picking up new value

+-----+
| LAST_INSERT_ID() |
+-----+
| 3 |
+------+
```

Resulting table contents:

Section 10.5: INSERT SELECT (Inserting data from another Table)

This is the basic way to insert data from another table with the SELECT statement.

```
INSERT INTO `tableA` (`field_one`, `field_two`)
   SELECT `tableB`.`field_one`, `tableB`.`field_two`
   FROM `tableB`
   WHERE `tableB`.clmn <> 'someValue'
   ORDER BY `tableB`.`sorting_clmn`;
```

You can **SELECT** * **FROM**, but then tableA and tableB *must* have matching column count and corresponding datatypes.

Columns with AUTO_INCREMENT are treated as in the INSERT with VALUES clause.

This syntax makes it easy to fill (temporary) tables with data from other tables, even more so when the data is to be filtered on the insert.

Section 10.6: Lost AUTO_INCREMENT ids

Several 'insert' functions can "burn" ids. Here is an example, using InnoDB (other Engines may work differently):

```
CREATE TABLE Burn (
   id SMALLINT UNSIGNED AUTO_INCREMENT NOT NULL,
   name VARCHAR(99) NOT NULL,
   PRIMARY KEY(id),
   UNIQUE(name)
        ) ENGINE=InnoDB;

INSERT IGNORE INTO Burn (name) VALUES ('first'), ('second');
SELECT LAST_INSERT_ID(); -- 1
SELECT * FROM Burn ORDER BY id;
```