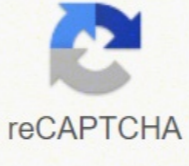




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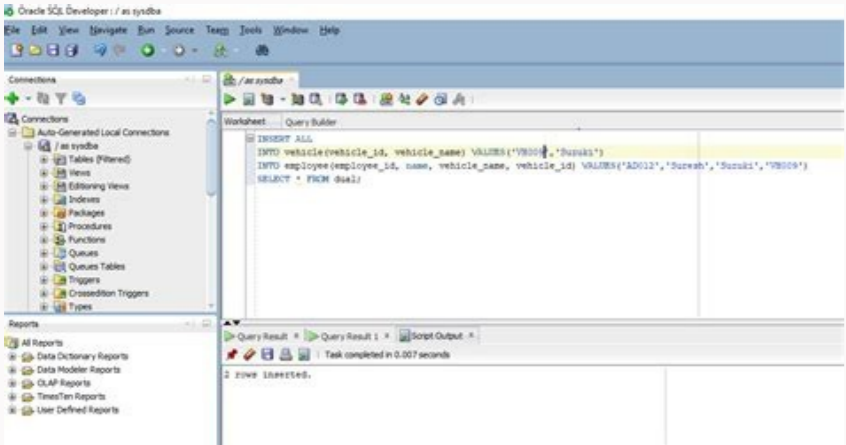
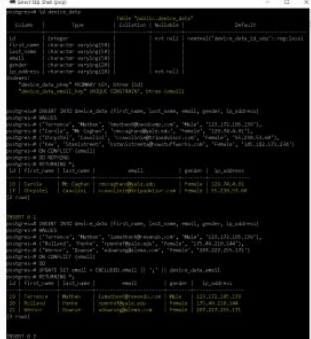
Sqlite insert multiple rows performance

```
mysql> INSERT INTO new_student(ID,first_name,city)VALUES(1,'Anshuman','Asansol'),(2,'karthik','Allahabad'),(3,'Karan','Malda');
Query OK, 3 rows affected (0.22 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from new_student;
+----+-----+-----+
| ID | first_name | city |
+----+-----+-----+
| 1  | Anshuman   | Asansol |
| 2  | karthik    | Allahabad |
| 3  | Karan      | Malda |
+----+-----+-----+
3 rows in set (0.00 sec)

mysql> INSERT INTO student(ID,name,city)SELECT * from new_student;
Query OK, 3 rows affected (0.14 sec)
Records: 3 Duplicates: 0 Warnings: 0

mysql> select * from student;
+----+-----+-----+
| ID | NAME | city |
+----+-----+-----+
| 1  | Anshuman | Asansol |
| 2  | karthik | Allahabad |
| 3  | Karan | Malda |
+----+-----+-----+
3 rows in set (0.00 sec)
```



```
Query - _student on postgres@localhost:5432
File Edit Query Favorites Messages View Help
SQL Editor | Graphical Query Builder

Previous queries
CREATE TABLE SampleTable (ID INT, Col1 VARCHAR(100));
INSERT INTO SampleTable (ID, Col1)
VALUES (1, 'One'), (2, 'Two'), (3, 'Three');
SELECT *
FROM SampleTable;
DROP TABLE SampleTable;

Output pane
Data Output Explain Messages History
id col1
integer character varying(100)
1 1One
2 2Two
3 3Three
```

Take One DNA. Emit Yreve TNemetates Shaft Drocer-Elgnis Emas Eht Setucexe Taht One: TNEMETATETILOQ ESU TAHT SESEC TSET FO SNOISREV OWT PU ETORW I) DAH YLGU STI RAER OT YLEKIL EB LLIW ROTCELLOC EGABRAG ET EREHW SnotAtis Rewef: Suht (uoy Rof TheMetats Lqs Eht Fo Noitaerc Eht Yawa Stcartsha Hcw Ragus Citcatnys Ylaltness Si) (shaded. Tresine fo introd a eganam ot deen ew semiteemos .sdrocer 111 Shaft ylo nac Eb Thgim Ew, Revo DNA Revo TCEJBO TNEMETATETILOQ on ESU-ER NAC EW FI, Oslo.Pu Sgni Deeps DLUOC YLT Cerid Tlejbo TNEMETATS EHT GNISU TAHN ESNES EKAM DLUOW TI OS, SDOHTEM OWT ESOHT FO REHTIE LLAC UOY NOHW SREVAC EHT REDNU RUSU SUY TNEMETATETILQSA .NOITCASTART A NIHABATAD TECHE ESABATAD EHT OT EDAM EB NAC SEGNAHC ON: ScOD EHT MORF .EUSSI EHT OTNO TGIS "" à Ć Ā ė uoy fi wonk ot detanicsaf eb dluow bottom, PPA Tset ET GINNUR SECNEIREPEKX RUOY TUOBA UOY MORF Raeh OT Evol DĀ "" à Ć Ā ė i.laer Si serocs bottoms-rep-sdroc deplesti sdrawot Dneznoc Et tnedifnoc leef from I, ECNAIVING A HCUS FO ESUAC ET FO ERUS YELTEPLOC TEY TON MĀ "" à Ć Ā ė I DNA GINTECNOC TAHWEMOS SI SIHT TIMDA YLEEEERF I ELOW BD Gnis NoitCasnart A NIHTIW SDRocer KCART 000,001 RESIDENT OT KOOT TI Emit EHT: Elpmaxe Rof .ecnamrofreq FI, Erofereht The code to insert a single record / one by one with SQLiteStatement: the code to insert a batch, using the recursion makeup from first stores the instructions into a cache based on hashmap, indexed to size: compare the batch inserts with execsql () With the use of SQLiteStatement directly from the graphics, it is quite clear that the re-use of single sqliteStatement record inserts alone does not beat grouped inserts using db.execSQL (). From sqlite3.c: if you don't mind being a little subtle, it's not too difficult to get around this problem with a little finishing: use the recursion makes everything very easy, but if this is not yours Style or won't work for your situation, even a loop is fit. If you have a particular suggestion for a topic, leave it in the comments! P.p.s. If you were paying attention, you may have noticed a bit of strangeness with my numbers in the rankings as well as failure records per second. Each command that changes the database (basically any SQL command other than SELECT) automatically starts a transaction if one is not already active. Maybe it was just my tests were not enough enough and my Nexus was getting too many Push notifications from Gmail and Facebook in the background or something ... unfortunately they don't give advice on how to make many inserts simultaneously. The naive approach to The simple table resembles this: I thought you could get performance by performing calls to db.insert () within a transaction, so I did my first experiment: compare implicit and explicit transactions when they enter The data. Looking at the chart, à ė quite clear that wrap a pile of calls to be inserted () to the inside of a transaction greatly improves performance compared to doing inserts without a transaction of why? À ė cos' cos Ā? It turns out that unless you explicitly query calls to beginTransaction() and endTransaction(), SQLite itself will execute wrapping each query with an implicit transaction. This level of abstraction, although not super expensive, isn't free.Batched Inserts with db.execSQL()We have some improved performance working with the raw and db.execSQL() statements, so I thought now that ĀAwe are building our own statements ourselves: What happens if we enter more than one record at a time?! originally discounted the idea thinking that because SQLite Ā SQLite is an in-process database engine, we would notĀnecessarily save something by batch insertions (unlike database servers, where network latency occurs with each statement).My first attempt to put together a batch insertion:Oops.Too many SQL variables?!Turns out that in SQLite source code, they place a strict limit on the number of variables allowed within a prepared statement. Converting data in chart to records per second:Without an explicit transaction: ~75 records per second.With an explicit transaction: ~10x improvement, with only 3 lines of code!Now that we know that using the transactions Ā is a huge advantage, we Ā from here on while playing with other ways to enter data.db.execSQL()Another method exposed by SQLiteDatabase that will allow us to enter data into our tables Ā db.execSQL(String, Object[]). The column of Ā this tableĀs PRIMARY KEY.I ran each test on my 16 GB Nexus 5X, running API level 25 (Nougat).The results were calculated by keeping track of the time elapsed while all inserts for the current size iteration were running. This is becauseĀ the number of records that Ā can be inserted by Ā instruction equals 999 / # of columns. WhatĀĀ the fastest way to get all those atalennot atalennot anu ertresni id attart is odnaqu ilibinopsid inoizpo el ?Ārenimase tsoop otseuq ni?diordnA sĀĀppa etILOQ esabatad out len Data in the SQLite database, evaluate each one's performance and discover some best practices along the way. Each experimentation is evolved by comparing two or more! ways to insert 1000, 10,000, and 100,000 randomly generated records into two different types of tables: an extremely simple Table (simple) composed of a single full column, ANDA piĀ real table (tracks) that describes a collection of music tracks in which each contains an ID, title, duration, text, etc. I guess. By-by-one insert VS. Automatically initiated transactions are committed when the last query finishes. It important to note that SQLite writes only inserts to disk once the Ā transaction has been committed. They fluctuate the kind of amply between tests. Ā provided as a Bare-Bones way to make unselected declarations. Batched.Wow! It turns out even if we don't continue to save network latency with the batched insert, we get quite a bit more performance without having to do so many individual statements. One thing to note though: More! columns Your table has, less of an advantage that you get out of the batching of your inserts. In the meantime, the simple case has only one column Ā Ā ~ "that allows you to enter 999 records to enter per batch.Running The throughput numbers by giving us again: one-by-one inserts: ~ 1400 track records per second. Inserts: ~ 1800 track Records per second.Using SQLitestatement Directly After showing my first draft of this blog Mail a friend of mine from #Androidchat, kindly pointed out another experiment I should run: what if, instead of using only the methods available from sqlliteDatabase, I directly tried to use the underlying sqllitestament class? The thought was along the same lines as the logic to bring from Insert () to Execsql () : cut the half man wherever you armbes armbes dehtab itresni ilged odnom len enoizurtsi?led ittego ilg erazilituir id amgidarap li eracilppa .aivattut Ā bit of improvement in performance at the cost of some added complexity in the codebase.The number one most important thing to take away from this post is that explicitly wrapping your inserts in a transaction makes for a massive and unmistakable improvement in performance.After that, you can get some reasonable speed improvements by using db.execSQL() with batched insert statements, especially if the number of columns your table has is small.Finally, if youeĀĀre really wanting to squeeze the most out of SQLite while inserting data: consider re-using SQLiteStatement batch-insert objects directly to do some more middleman cutting-out.P.S. IeĀĀĀd like to do some more research into how to squeeze the best performance out of SQLite and Android, maybe this can turn into a series. The time taken to connect to the database before and to wipe the table after each iteration was excluded from the results.You can download the source code from GitHub and build/run the test application yourself, if you feel the urge!The official training material for AndroideĀĀs SQLite bindings provides an example of populating a table using the insert()method provided by the SQLiteDatabase object. object.

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