

SQLITE - EXPLAIN

http://www.tutorialspoint.com/sqlite/sqlite_explain.htm

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An SQLite statement can be preceded by the keyword "EXPLAIN" or by the phrase "EXPLAIN QUERY PLAN" used for describing the details of table.

Either modification causes the SQLite statement to behave as a query and to return information about how the SQLite statement would have operated if the EXPLAIN keyword or phrase had been omitted.

- The output from EXPLAIN and EXPLAIN QUERY PLAN is intended for interactive analysis and troubleshooting only.
- The details of the output format are subject to change from one release of SQLite to the next.
- Applications should not use EXPLAIN or EXPLAIN QUERY PLAN since their exact behavior is variable and only partially documented.

Syntax:

Syntax for **EXPLAIN** is as follows:

```
EXPLAIN [SQLite Query]
```

Syntax for **EXPLAIN QUERY PLAN** is as follows:

```
EXPLAIN QUERY PLAN [SQLite Query]
```

Example:

Consider [COMPANY](#) table is having the following records:

ID	NAME	AGE	ADDRESS	SALARY
1	Paul	32	California	20000.0
2	Allen	25	Texas	15000.0
3	Teddy	23	Norway	20000.0
4	Mark	25	Rich-Mond	65000.0
5	David	27	Texas	85000.0
6	Kim	22	South-Hall	45000.0
7	James	24	Houston	10000.0

Now, let us check following sub-query with SELECT statement:

```
sqlite> EXPLAIN SELECT * FROM COMPANY WHERE salary >= 20000;
```

This would produce the following result:

addr	opcode	p1	p2	p3
0	Goto	0	19	
1	Integer	0	0	
2	OpenRead	0	8	
3	SetNumColu	0	5	
4	Rewind	0	17	
5	Column	0	4	
6	RealAffini	0	0	
7	Integer	20000	0	
8	Lt	357	16	collseq(BI
9	Rowid	0	0	
10	Column	0	1	
11	Column	0	2	

12	Column	0	3
13	Column	0	4
14	RealAffini	0	0
15	Callback	5	0
16	Next	0	5
17	Close	0	0
18	Halt	0	0
19	Transactio	0	0
20	VerifyCook	0	38
21	Goto	0	1
22	Noop	0	0

Now, let us check following **Explain Query Plan** with SELECT statement:

```
SQLite> EXPLAIN QUERY PLAN SELECT * FROM COMPANY WHERE Salary >= 20000;
```

order	from	detail
0	0	TABLE COMPANY