**SQLITE Day 1 Codes**

**Guidelines:**

* **Red color coding – Query**
* **Blue color coding – Query Output**

**Creating a new database named Productdb.db**

**sqlite> .open Productdb.db**

**Checking the databases existing in SQLite**

**sqlite> .databases**

**Creating a new table named product\_info having 3 cols – prod\_id, prod\_name and prod\_price**

**sqlite> create table product\_info(prod\_id int, prod\_name text, prod\_price int);**

**Checking the tables in SQLite**

**sqlite> .tables**

**sqlite>**

**INSERT Query**

**sqlite> insert into product\_info values(101, 'Parle-G', 5);**

**sqlite>**

**sqlite> insert into product\_info values(102, 'GoodDay', 10);**

**sqlite> insert into product\_info values(103, 'KrackJack', 10);**

**sqlite>**

**sqlite> insert into product\_info (prod\_name, prod\_price) values('Sunfeast', 15);**

**sqlite>**

**SELECT Query**

**sqlite> select \* from product\_info;**

**101|Parle-G|5**

**102|GoodDay|10**

**103|KrackJack|10**

**|Sunfeast|15**

**sqlite>**

**SQLite Output Formatting**

**sqlite> .show**

**echo: off**

**eqp: off**

**explain: auto**

**headers: off**

**mode: list**

**nullvalue: ""**

**output: stdout**

**colseparator: "|"**

**rowseparator: "\n"**

**stats: off**

**width:**

**filename: ProductDB.db**

**sqlite>**

**Setting Output Parameters – header, mode and timer**

**sqlite> .header on**

**sqlite> .mode column**

**sqlite> .timer on**

**sqlite>**

**sqlite> select \* from product\_info;**

**prod\_id prod\_name prod\_price**

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**101 Parle-G 5**

**102 GoodDay 10**

**103 KrackJack 10**

**Sunfeast 15**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**Inserting more records**

**sqlite> insert into product\_info values(105, 'Marie-Lite', 20);**

**Run Time: real 0.008 user 0.000000 sys 0.000000**

**sqlite> insert into product\_info values(105, 'Nutri-Choice', 35);**

**Run Time: real 0.008 user 0.000000 sys 0.000000**

**sqlite> insert into product\_info values(105, 'Hide-N-Seek', 49);**

**Run Time: real 0.007 user 0.000000 sys 0.000000**

**sqlite> insert into product\_info values(105, 'Milano', 59);**

**Run Time: real 0.008 user 0.000000 sys 0.000000**

**sqlite> insert into product\_info values(105, 'Butter-Bite', 60);**

**Run Time: real 0.007 user 0.000000 sys 0.000000**

**sqlite> insert into product\_info values(105, 'Choco-Chips', 70);**

**Run Time: real 0.008 user 0.000000 sys 0.000000**

**sqlite> insert into product\_info values(105, 'Jim-N-Jam', 100);**

**Run Time: real 0.009 user 0.000000 sys 0.000000**

**sqlite> select \* from product\_info;**

**prod\_id prod\_name prod\_price**

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**101 Parle-G 5**

**102 GoodDay 10**

**103 KrackJack 10**

**104 Sunfeast 15**

**105 Marie-Lite 20**

**105 Nutri-Choice 35**

**105 Hide-N-Seek 49**

**105 Milano 59**

**105 Butter-Bite 60**

**105 Choco-Chips 70**

**105 Jim-N-Jam 100**

**Run Time: real 0.002 user 0.000000 sys 0.000000**

**UPDATE Query**

**sqlite> update product\_info set prod\_id=106 where prod\_price=35;**

**Run Time: real 0.007 user 0.000000 sys 0.000000**

**sqlite> update product\_info set prod\_id=107 where prod\_price=49;**

**Run Time: real 0.007 user 0.000000 sys 0.000000**

**sqlite> update product\_info set prod\_id=108 where prod\_price=59;**

**Run Time: real 0.007 user 0.000000 sys 0.000000**

**sqlite> update product\_info set prod\_id=109 where prod\_price=60;**

**Run Time: real 0.007 user 0.000000 sys 0.000000**

**sqlite> update product\_info set prod\_id=110 where prod\_price=70;**

**Run Time: real 0.008 user 0.000000 sys 0.015625**

**sqlite> update product\_info set prod\_id=111 where prod\_price=100;**

**Run Time: real 0.009 user 0.000000 sys 0.000000**

**sqlite> select \* from product\_info;**

**prod\_id prod\_name prod\_price**

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**101 Parle-G 5**

**102 GoodDay 10**

**103 KrackJack 10**

**104 Sunfeast 15**

**105 Marie-Lite 20**

**106 Nutri-Choice 35**

**107 Hide-N-Seek 49**

**108 Milano 59**

**109 Butter-Bite 60**

**110 Choco-Chips 70**

**111 Jim-N-Jam 100**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**Expressions**

**sqlite>**

**sqlite> select 15-2\*3/5%2;**

**15-2\*3/5%2**

**------------**

**14**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**COUNT Function**

**sqlite>**

**sqlite> select count(\*) from product\_info;**

**count(\*)**

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**11**

**Run Time: real 0.000 user 0.000000 sys 0.000000**

**IN Membership Operation**

**sqlite> select prod\_id from product\_info where prod\_price in (10, 15, 60, 100);**

**prod\_id**

**------------**

**102**

**103**

**104**

**109**

**111**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**NOT IN Membership Operation**

**sqlite> select prod\_id from product\_info where prod\_price not in (10, 15, 60, 100);**

**prod\_id**

**------------**

**101**

**105**

**106**

**107**

**108**

**110**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**sqlite>**

**LIKE Operator**

**sqlite> select \* from product\_info where prod\_name like '%m';**

**prod\_id prod\_name prod\_price**

**------------ ------------ ------------**

**111 Jim-N-Jam 100**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**sqlite>**

**sqlite> select \* from product\_info where prod\_name like 'm%';**

**prod\_id prod\_name prod\_price**

**------------ ------------ ------------**

**105 Marie-Lite 20**

**108 Milano 59**

**Run Time: real 0.000 user 0.000000 sys 0.000000**

**sqlite>**

**sqlite> select \* from product\_info where prod\_name like 'm%o';**

**prod\_id prod\_name prod\_price**

**------------ ------------ ------------**

**108 Milano 59**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**sqlite>**

**sqlite> select \* from product\_info where prod\_name like 'm%no';**

**prod\_id prod\_name prod\_price**

**------------ ------------ ------------**

**108 Milano 59**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**sqlite> select \* from product\_info where prod\_name like 'sun%s\_';**

**prod\_id prod\_name prod\_price**

**------------ ------------ ------------**

**104 Sunfeast 15**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**sqlite> select \* from product\_info where prod\_name like '%m%';**

**prod\_id prod\_name prod\_price**

**------------ ------------ ------------**

**105 Marie-Lite 20**

**108 Milano 59**

**111 Jim-N-Jam 100**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**sqlite>**

**SUBQUERY**

**sqlite> select prod\_name from product\_info where prod\_id = (select prod\_id from product\_info where prod\_price=60);**

**prod\_name**

**------------**

**Butter-Bite**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**sqlite>**

**sqlite>**

**sqlite> select prod\_name from product\_info where prod\_id = (select prod\_id from product\_info where prod\_price in (10, 60, 100));**

**prod\_name**

**------------**

**GoodDay**

**Run Time: real 0.000 user 0.000000 sys 0.000000**

**sqlite> select prod\_name from product\_info where prod\_id in (select prod\_id from product\_info where prod\_price in (10, 60, 100));**

**prod\_name**

**------------**

**GoodDay**

**KrackJack**

**Butter-Bite**

**Jim-N-Jam**

**Run Time: real 0.001 user 0.000000 sys 0.000000**

**sqlite>**