

## SQLITE Day 1 Codes

### Guidelines:

- Red color coding – Query
- Blue color coding – Query Output

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### Creating a new database named Productdb.db

```
sqlite> .open Productdb.db
```

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### 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);
```

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### Checking the tables in SQLite

```
sqlite> .tables
```

```
sqlite>
```

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### 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>
```

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### 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

-----

101 Parle-G 5

102 GoodDay 10

103 KrackJack 10

Sunfeast 15

Run Time: real 0.001 user 0.000000 sys 0.000000

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### 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

-----

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
---------	-----------	------------

-----

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(*)
```

```
-----
```

```
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>
```

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