SQLITE Day 2 Codes

Guidelines:

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

Checking the previously created database, tables and options

```
sqlite> .open ProductDB.db
sqlite> .tables
product_info
sqlite> select * from product_info;
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
sqlite> .mode column
sqlite> .header on
sqlite> .timer on
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 0.002 user 0.000000 sys 0.000000
```

Operators (IN, AND, GLOB, LIKE, EXISTS)

```
sqlite>
sqlite> select prod_name, prod_price from product_info where prod_id in (101, 104, 107) and
prod_price in (5, 10, 15, 49, 100);
prod_name    prod_price
-----------  ----------
Parle-G      5
Sunfeast     15
Hide-N-Seek  49
Run Time: real 0.001 user 0.000000 sys 0.000000
sqlite>
sqlite> select * from product_info where prod_name glob '*k';
prod_id  prod_name    prod_price
-------  -----------  ----------
103      KrackJack    10
107      Hide-N-Seek  49
sqlite>
sqlite> select * from product_info where prod_id glob '10?';
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
sqlite>
sqlite> select * from product_info where prod_id glob '10?' and prod_name like 'N%';
prod_id  prod_name    prod_price
-------  -----------  ----------
106     Nutri-Choice  35
sqlite>
sqlite> select prod_id from product_info where exists (select * from product_info where
prod_name = 'Biscuit');
sqlite>
sqlite> select prod_id from product_info where exists (select * from product_info where
prod_name = 'Milano');
prod_id
-------
101
102
103
104
105
106
107
108
109
110
```

```
sqlite> select * from product_info where exists (select * from product_info where prod_name =
'Milano');
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
```

LIMIT and OFFSET

```
sqlite>
sqlite> select * from product_info limit 4;
prod_id  prod_name  prod_price
-------  ---------  ----------
101      Parle-G    5
102      GoodDay    10
103      KrackJack  10
104      Sunfeast   15
sqlite>
sqlite> select * from product_info limit 5 offset 4;
prod_id  prod_name    prod_price
-------  -----------  ----------
105      Marie-Lite   20
106      Nutri-Choice 35
```

107 Hide-N-Seek 49

108 Milano 59

109 Butter-Bite 60

ORDER BY CLAUSE

```
sqlite>
sqlite> select * from product_info order by prod_price desc;
prod_id  prod_name    prod_price
-------  ------------  ----------
110      Choco-Chips   70
109      Butter-Bite   60
108      Milano        59
107      Hide-N-Seek   49
106      Nutri-Choice  35
105      Marie-Lite    20
104      Sunfeast      15
102      GoodDay       10
103      KrackJack     10
101      Parle-G       5
sqlite>
sqlite> select * from product_info order by prod_name asc;
prod_id  prod_name    prod_price
-------  ------------  ----------
109      Butter-Bite   60
110      Choco-Chips   70
102      GoodDay       10
107      Hide-N-Seek   49
103      KrackJack     10
105      Marie-Lite    20
108      Milano        59
```

```
106     Nutri-Choice  35
101     Parle-G       5
104     Sunfeast      15
```

Multiple INSERTION

```
sqlite>
sqlite> insert into product_info values (111, 'ParleG-Coconut', 35), (112, 'ParleG-Pista', 45), (113, 'ParleG-Doubledip', 23);
sqlite>
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     ParleG-Coconut  35
112     ParleG-Pista    45
113     ParleG-Doubledip  23
sqlite>
sqlite> select * from product_info order by prod_name asc;
prod_id  prod_name       prod_price
-------  ---------------  ----------
```

```
109     Butter-Bite      60
110     Choco-Chips      70
102     GoodDay          10
107     Hide-N-Seek      49
103     KrackJack        10
105     Marie-Lite       20
108     Milano           59
106     Nutri-Choice     35
101     Parle-G          5
111     ParleG-Coconut   35
113     ParleG-Doubledip 23
112     ParleG-Pista     45
104     Sunfeast         15
sqlite>
sqlite> insert into product_info values (111, 'PARLEg-Coconut', 35);
sqlite> update product_info set prod_id=114 where prod_name='PARLEg-Coconut';
sqlite>
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     ParleG-Coconut   35
```

```
112     ParleG-Pista     45
113     ParleG-Doubledip  23
114     PARLEg-Coconut    35
sqlite>
sqlite> select * from product_info order by prod_name asc;
prod_id  prod_name       prod_price
-------  ---------------  ----------
109     Butter-Bite      60
110     Choco-Chips      70
102     GoodDay          10
107     Hide-N-Seek      49
103     KrackJack        10
105     Marie-Lite       20
108     Milano           59
106     Nutri-Choice     35
114     PARLEg-Coconut    35
101     Parle-G          5
111     ParleG-Coconut    35
113     ParleG-Doubledip  23
112     ParleG-Pista     45
104     Sunfeast         15
```

SUM & AVG Function

```
sqlite>
sqlite> select SUM(prod_price) from product_info;
SUM(prod_price)
---------------
471
sqlite>
```

```
sqlite> select AVG(prod_price) from product_info;
AVG(prod_price)
----------------
33.6428571428571
sqlite>
sqlite> insert into product_info values (115, 'ParleG-Coconut', 105), (116, 'Sunfeast', 122);
sqlite>
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      ParleG-Coconut  35
112      ParleG-Pista    45
113      ParleG-Doubledip  23
114      PARLEg-Coconut  35
115      ParleG-Coconut  105
116      Sunfeast        122
```

GROUP BY CLAUSE

```
sqlite>
```

```
sqlite> select prod_name from product_info group by prod_name;
prod_name
----------
Butter-Bite
Choco-Chips
GoodDay
Hide-N-Seek
KrackJack
Marie-Lite
Milano
Nutri-Choice
PARLEg-Coconut
Parle-G
ParleG-Coconut
ParleG-Doubledip
ParleG-Pista
Sunfeast
sqlite>
sqlite> select prod_name, sum(prod_price) from product_info group by prod_name;
prod_name       sum(prod_price)
----------  ----------
Butter-Bite     60
Choco-Chips     70
GoodDay         10
Hide-N-Seek     49
KrackJack       10
Marie-Lite      20
Milano          59
Nutri-Choice    35
PARLEg-Coconut  35
Parle-G         5
```

```
ParleG-Coconut    140
ParleG-Doubledip  23
ParleG-Pista      45
Sunfeast          137
sqlite>
sqlite> select prod_name, sum(prod_price) from product_info group by prod_name order by
prod_name desc;
prod_name         sum(prod_price)
----------------  ---------------
Sunfeast          137
ParleG-Pista      45
ParleG-Doubledip  23
ParleG-Coconut    140
Parle-G           5
PARLEg-Coconut    35
Nutri-Choice      35
Milano            59
Marie-Lite        20
KrackJack         10
Hide-N-Seek       49
GoodDay           10
Choco-Chips       70
Butter-Bite       60
sqlite>
sqlite> select * from product_info where prod_name like 'P%' group by prod_name;
prod_id  prod_name        prod_price
-------  ----------------  ----------
114      PARLEg-Coconut    35
101      Parle-G           5
111      ParleG-Coconut    35
113      ParleG-Doubledip  23
```

```
112     ParleG-Pista     45

sqlite>

sqlite> select prod_name, sum(prod_price) as 'total' from product_info where prod_name like 'P%'
group by prod_name;

prod_name       total

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

PARLEg-Coconut   35

Parle-G         5

ParleG-Coconut   140

ParleG-Doubledip  23

ParleG-Pista     45
```

CREATE TABLE using SELECT QUERY

```
sqlite>

sqlite> create table parle_prod as select prod_name, sum(prod_price) from product_info where
prod_name like 'P%' group by prod_name;

sqlite>

sqlite> .tables

parle_prod    product_info

sqlite>

sqlite> select * from parle_prod;

prod_name       sum(prod_price)

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

PARLEg-Coconut   35

Parle-G         5

ParleG-Coconut   140

ParleG-Doubledip  23

ParleG-Pista     45
```

SUBSTRING Function

```
sqlite>

sqlite> SELECT substring(prod_name, 1, 1) AS first_letter, COUNT(*) from product_info group by
substring(prod_name, 1, 1);

first_letter  COUNT(*)

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

B             1

C             1

G             1

H             1

K             1

M             2

N             1

P             6

S             2

sqlite>
```
