**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>**