RETRIEVAL QUERIES

1.Select all medicine which are similar to crocin.

```
201651057=> SELECT DISTINCT medicine_id FROM medicine_contents WHERE content_name IN(SELECT content_name FROM medicine_contents WHERE medicine_id = 1);
 medicine_id
-------------
           1
           3
           4
           6
           2
           5
(6 rows)
```

2. Find the total sale on 5th April 2018.

```
201651057=> SELECT * FROM INVOICE;
 invoice_id |    date    | invoice_amount
------------+------------+----------------
     500001 | 2018-04-05 |             13
     500002 | 2018-04-05 |             18
     500003 | 2018-04-05 |            208
     500004 | 2018-03-05 |            300
     500005 | 2018-03-05 |            229
     500006 | 2018-03-05 |             66
     500007 | 2018-03-05 |             16
     500008 | 2018-02-05 |            348
     500009 | 2018-02-05 |            350
     500010 | 2018-04-06 |            291
     500011 | 2018-04-06 |             18
     500012 | 2018-04-20 |             59
     500013 | 2018-03-20 |             40
     500014 | 2018-03-20 |            827
     500015 | 2018-03-20 |            149
(15 rows)


201651057=> SELECT sum(invoice_amount) From invoice Where date='2018-04-05';
 sum
-----
 239
(1 row)


201651057=>
```

3.List all the medicine manufactured by abbott healthcare.

```
201651057=> SELECT medicine_id,m.name FROM medicine AS m JOIN manufacturer AS man ON m.manufacturer_id = man.manufacturer_id WHERE m.manufacturer_id =200010;
 medicine_id |    name
-------------+--------------
          10 | Avomine
          11 | Phenergan
          24 | Omepp
          40 | Atorbastatin
          83 | Allerdst
(5 rows)
```

4. List all customers who puchased moov in the month of April.

Sql:
```
 SELECT c.cust_id,c.cust_name FROM customer AS c
        JOIN (cust_has_invoice AS chi
        JOIN (invoice AS i JOIN invoice_items AS ii ON i.invoice_id = ii.invoice_id)
        ON chi.invoice_id = i.invoice_id) ON c.cust_id = chi.cust_id
        WHERE (4 = EXTRACT(month FROM date)) AND ii.medicine_id = 56;
```

```
-------------+--------------
          10 | Avomine
          11 | Phenergan
          24 | Omepp
          40 | Atorbastatin
          83 | Allerdst
(5 rows)


201651057=>
```

5. List credits of a customer having id 1001.

```
201651057=> SELECT credits FROM membership_card AS m JOIN customer AS c on m.membership_id = c.membership_id WHERE cust_id = 1001;
 credits
---------
      20
(1 row)
```

Sql:

SELECT credits FROM membership_card AS m JOIN customer AS c on m.membership_id = c.membership_id WHERE cust_id = 1001;

6. Give status of an invoice.

```
                                      ^
HINT:  Perhaps you meant to reference the column "i.invoice_id".
201651057=> SELECT status FROM DELIVERY AS d JOIN invoice AS i ON d.invoice_id = i.invoice_id WHERE i.invoice_id = 500004;
  status
-----------
 Delivered
(1 row)
```

7.List all medicines whose stock is less than or equal to 50.

```
201651057=> SELECT status FROM DELIVERY AS d JOIN invoice AS i ON d.invoice_id = i.invoice_id WHERE i.invoice_id = 500004;
  status
-----------
 Delivered
(1 row)

201651057=>
```

8.List all customer's names,id whose delivery is due today.

```
201651057=> SELECT c.cust_id,c.cust_name FROM customer AS c JOIN (cust_has_invoice AS chi JOIN invoice as i ON chi.invoice_id = i.invoice_id) ON c.cust_id = chi.cust_id
 WHERE i.invoice_id IN (SELECT invoice.invoice_id FROM invoice join delivery ON invoice.invoice_id = delivery.invoice_id WHERE current_date - delivery.date>=3 AND statu
s = 'Not Delivered');
 cust_id | cust_name
---------+-----------
(0 rows)
```

Sql:

SELECT c.cust_id,c.cust_name FROM customer AS c
        JOIN (cust_has_invoice AS chi
        JOIN invoice as i ON chi.invoice_id = i.invoice_id) ON c.cust_id = chi.cust_id
        WHERE i.invoice_id IN (SELECT invoice.invoice_id FROM invoice join delivery
        ON invoice.invoice_id = delivery.invoice_id
        WHERE current_date - delivery.date>=3 AND status = 'Not Delivered');

9.List all medicine having glycerol dibasic composition less than 3.

```
201651057=> SELECT m.medicine_id,m.name FROM medicine AS m JOIN medicine_contents AS mc ON m.medicine_id = mc.medicine_id WHERE mc.content_name = 'glycerol dibasic' AND
 mc.composition<3;
 medicine_id |    name
-------------+-----------
          43 | Ecoglip
          44 | Humalog
          45 | Plymprix
          46 | Zita Plus
          47 | Teneprid
          48 | Ten Dc
(6 rows)
```

10.List details of the manufacturer who manufactures betadine.

```
201651057=> SELECT * FROM manufacturer AS man JOIN medicine AS m ON m.manufacturer_id = man.manufacturer_id WHERE m.name = 'Betadine';
 manufacturer_id |     name      |  address   |   contact   | medicine_id |   name   | power | manufacturer_id | stock | cost_price | selling_price
-----------------+---------------+------------+-------------+-------------+----------+-------+-----------------+-------+------------+---------------
          200045 | Franklin Labs | Chandigarh | 1400180007  |          88 | Betadine |       |          200045 |    80 |         83 |            85
(1 row)
```

11. Give the details of a particular purchase by a customer.

```
201651057=> SELECT * FROM invoice_items AS it JOIN invoice as i ON it.invoice_id = i.invoice_id WHERE i.invoice_id =500010 ;
 invoice_id | medicine_id | quantity | purchase_price | invoice_id |    date    | invoice_amount
------------+-------------+----------+----------------+------------+------------+----------------
    500010  |          82 |        2 |           4.35 |     500010 | 2018-04-06 |            291
    500010  |          78 |        4 |          18.02 |     500010 | 2018-04-06 |            291
    500010  |          90 |        2 |            132 |     500010 | 2018-04-06 |            291
(3 rows)


201651057=>
```

12. LIst details of all the invoices which are delivered late.

```
201651057=> SELECT * FROM invoice AS i JOIN delivery AS d ON i.invoice_id = d.invoice_id WHERE d.date - i.date>3;
 invoice_id |    date    | invoice_amount | invoice_id | status |    date
------------+------------+----------------+------------+--------+------------
    500008  | 2018-02-05 |            348 |     500008 | Late   | 2018-02-09
(1 row)
```

13. List all medicine giving profit of more than 10%.

```
201651057=> SELECT name, medicine_id FROM medicine WHERE (((selling_price - cost_price)/cost_price)*100)>10;
     name      | medicine_id
---------------+-------------
 Loperamide    |           7
 Lopamax       |           8
 Ciprofloxacin |           9
 Avomine       |          10
 Phenergan     |          11
 Emin          |          12
 Helirab       |          33
 Rabalken      |          34
 Rabisec       |          35
(9 rows)
```

14. Give total profit in the month of april.

```
201651057=> SELECT sum((((selling_price - cost_price)/cost_price)*100)) FROM medicine as m JOIN invoice_items AS it ON it.medicine_id = m.medicine_id WHERE it.medicine_
id IN (SELECT it.medicine_id FROM invoice_items AS it JOIN invoice AS i ON i.invoice_id = it.invoice_id WHERE it.invoice_id IN (SELECT i.invoice_id From invoice WHERE 4
= EXTRACT(month FROM invoice.date)));
           sum
-------------------------
 131.91015063419421721000
(1 row)
```

Sql:

SELECT sum((((selling_price - cost_price)/cost_price)*100)) FROM medicine as m
    JOIN invoice_items AS it ON it.medicine_id = m.medicine_id WHERE it.medicine_id IN
    (SELECT it.medicine_id FROM invoice_items AS it JOIN invoice AS i ON i.invoice_id =
    it.invoice_id WHERE it.invoice_id IN (SELECT i.invoice_id From invoice WHERE 4 =
    EXTRACT(month FROM invoice.date)));