* Add a habit with a desired frequency(e.g. daily, every weekday, every hour)

First press the add new habit button on the dashboard.

Customize your habitrabbit!

Choose the days and frequency

Duration of the habit!

•Delete a habit

Press the habit

You will get some options.

Press delete

•Update the status of a habit at a particular time

Press the habitrabbit, press completed! Or press not succesful

•Change an existing habit’s content (i.e. habit text and status)

Press the rabbit and press change,

Change the desired fields

•Sort the habitsaccording to how well they are meeting the desired goals

Click on the HabitRabbit journal and click on the sort button and press the sort by progress high->low. Then sort.

* Customize your habitrabbit!

Click during during the adding process on customize my rabbit, “POPUP appears” choose your avatar and color and name of your very own habitrabbit!

What are our objects?

* Habit
  + String -Name
  + Int - duration
  + Int - Interval
  + Int - Successful dates
  + Int - Un successful dates
  + Habitrabbit - HabitRabbit
  + Good or bad
* HabitRabbit
  + Color
  + Avatar
  + Name
  + Lives

mysql> DESC day\_of\_week

-> ;

+-------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| id | int(11) | NO | PRI | NULL | |

| name | varchar(45) | NO | | NULL | |

+-------+-------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> desc frequency

-> ;

+-------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| id | int(11) | NO | PRI | NULL | |

| name | varchar(45) | NO | | NULL | |

+-------+-------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> desc habit

-> ;

+-----------------+-----------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+-----------------+-----------+------+-----+---------+----------------+

| id | int(11) | NO | PRI | NULL | auto\_increment |

| title | text | NO | | NULL | |

| description | text | YES | | NULL | |

| creationDate | timestamp | YES | | NULL | |

| habit\_list\_id | int(11) | YES | MUL | NULL | |

| frequency\_id | int(11) | NO | MUL | NULL | |

| part\_of\_week\_id | int(11) | YES | MUL | NULL | |

+-----------------+-----------+------+-----+---------+----------------+

7 rows in set (0.00 sec)

mysql> desc habit\_day\_of\_week

-> ;

+----------------+---------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+----------------+---------+------+-----+---------+-------+

| habit\_id | int(11) | NO | PRI | NULL | |

| day\_of\_week\_id | int(11) | NO | PRI | NULL | |

+----------------+---------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> desc habit\_done

-> ;

+-----------+-----------+------+-----+-------------------+-----------------------------+

| Field | Type | Null | Key | Default | Extra |

+-----------+-----------+------+-----+-------------------+-----------------------------+

| habit\_id | int(11) | NO | PRI | NULL | |

| timestamp | timestamp | NO | PRI | CURRENT\_TIMESTAMP | on update CURRENT\_TIMESTAMP |

+-----------+-----------+------+-----+-------------------+-----------------------------+

2 rows in set (0.00 sec)

mysql> desc part\_of\_week;

+-------+-------------+------+-----+---------+-------+

| Field | Type | Null | Key | Default | Extra |

+-------+-------------+------+-----+---------+-------+

| id | int(11) | NO | PRI | NULL | |

| name | varchar(45) | NO | | NULL | |

+-------+-------------+------+-----+---------+-------+

2 rows in set (0.00 sec)

mysql> desc user;

+----------+----------+------+-----+---------+----------------+

| Field | Type | Null | Key | Default | Extra |

+----------+----------+------+-----+---------+----------------+

| id | int(11) | NO | PRI | NULL | auto\_increment |

| name | text | NO | | NULL | |

| email | text | NO | | NULL | |

| username | tinytext | NO | | NULL | |

| password | text | NO | | NULL | |

+----------+----------+------+-----+---------+----------------+

5 rows in set (0.00 sec)

**select** \*  
**from** habit ,habit\_list, **user  
where** habit.habit\_list\_id **IN** (**select** id  
 **from** habit\_list  
 **where owner** = (**select** id  
 **from user  
 where** username = "user1"  
  
 ));  
  
**select** \*  
**from** habit, habit\_list, **user  
where user**.id = habit\_list.owner  
**AND** habit\_list\_id = habit.habit\_list\_id  
**AND user**.id = 1;  
# Answer 1  
**select** \*  
**from** habit\_list  
**WHERE owner** = 1;  
# Answer 2  
**select** \*  
**from** habit  
**where** habit\_list\_id = 1  
**limit** 1,1;  
# Answer 4 a  
**select** \*  
**from** habit  
**where** frequency\_id = 1;  
# Answer 4 b  
**select** \*  
**from** habit, habit\_list  
**where** habit.id =habit\_list\_id **AND** isPublic;  
# Answer 4 c  
**SELECT** \*  
**from** habit, habit\_done  
**where** habit.id = habit\_done.habit\_id  
**AND** habit\_done.timestamp >= '2017-10-02 15:10:15'  
**AND** habit\_done.timestamp <= '2017-10-10 15:10:15';  
  
# Answer 5  
**SELECT** habit.title  
**from** habit\_list, habit  
**WHERE** habit\_list.owner = 2 **AND** habit\_list.id = habit.habit\_list\_id;  
  
# Answer 6  
**SELECT** part\_of\_week.name  
**from** habit, part\_of\_week  
**WHERE** habit.part\_of\_week\_id = part\_of\_week.id **AND** habit.id = 1;  
  
# Answer 7  
**SELECT** habit.title  
**FROM** habit, part\_of\_week  
**WHERE** habit.part\_of\_week\_id =1;  
  
# Answer 8  
**SELECT** *SUM*(**DISTINCT case WHEN** habit.part\_of\_week\_id **is not NULL then** 1 **else** 0 **end**) **as** 'started', *sum*(**case when** habit.part\_of\_week\_id **is null then** 1 **else** 0 **end**) **as** 'unstarted'  
# SELECT \*  
**FROM** (habit  
**LEFT JOIN** habit\_done **on** habit.id=habit\_done.habit\_id **and** habit.part\_of\_week\_id=2);  
  
# Answer 9  
**SELECT** *extract*(**week from** habit\_done.timestamp) **as** 'week', *count*(\*)  
**FROM** habit\_done  
**GROUP BY** *extract*(**week FROM** habit\_done.timestamp);  
  
# Answer 10  
# SELECT habit.title  
**SELECT** habit.title, habit\_done.habit\_id, *MAX*(habit\_done.timestamp) **as** max, *MIN*(habit\_done.timestamp) **as** min, *DATEDIFF*(*MAX*(habit\_done.timestamp),*MIN*(habit\_done.timestamp)) **AS** DIFF  
**FROM** habit **join** habit\_done **on** habit\_id= habit\_done.habit\_id  
**GROUP BY** habit\_done.habit\_id  
**ORDER BY** DIFF **desc  
LIMIT** 5;  
# ORDER BY  
  
# LIMIT 5;  
# Answwer 11  
**SELECT** habit.title, *COUNT*(habit\_day\_of\_week.habit\_id)  
**from** habit **join** habit\_day\_of\_week **ON** habit\_day\_of\_week.habit\_id = habit.id  
**join** day\_of\_week **on** day\_of\_week\_id = habit\_day\_of\_week.day\_of\_week\_id  
**GROUP BY** habit.title  
**ORDER BY** habit.title;  
  
# answer 12  
# select COUNT(habit\_done.timestamp)  
**SELECT** \*  
**from** habit\_done, habit  
 **WHERE** habit.id=habit\_done.habit\_id **AND** habit.habit\_list\_id =1  
# GROUP BY habit\_done.habit\_id;  
  
# SELECT habit.id, COUNT(\*), avg(habit.id)  
**SELECT** *CAST*(*COUNT*(\*) **AS DECIMAL**) / *COUNT*()  
**FROM** habit  
**JOIN** habit\_list **on** habit\_list.id = habit.habit\_list\_id  
**JOIN** habit\_done **on** habit.id = habit\_done.habit\_id  
**GROUP BY** habit.id  
  
**SELECT** habit.title, *AVG*(habit\_done.habit\_id)  
**FROM** habit **join** habit\_done **on** habit\_done.habit\_id = habit.id **JOIn** habit\_list **on** habit.habit\_list\_id = habit\_list.id  
**where** habit\_list.id = 3  
**GROUP BY** habit.title  
**ORDER BY** habit.title;  
  
# Answer 13  
**SELECT** habittemp.title, habittemp.Avg, habit.habitavg  
**from** (**SELECT** habit.title, *AVG*(habit\_done.habit\_id) **as** Avg **FROM** habit  
 **join** habit\_day\_of\_week **ON** habit.id = habit\_day\_of\_week.habit\_id  
**JOIN** habit\_done **on** habit.id = habit\_done.habit\_id  
**JOIN** day\_of\_week **on** day\_of\_week.id = habit\_day\_of\_week.day\_of\_week\_id  
**GROUP by** habit.title) **as** habittemp,  
 (**SElect** (*avg*(habit.id)) **AS** habitavg **from** habit) **as** habit  
**where** habittemp.Avg > habit.habitavg;