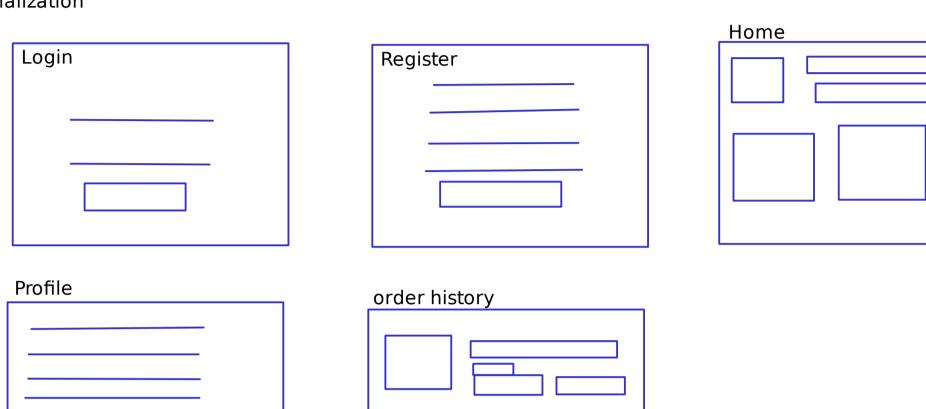
```
Delimiter $$
                                        Triggers
                                                                                          mysql.connector
                                        transactions
  CREATE PROCEDURE sp_hello()
                                        BEFORE/ AFTER
  BEGIN
                                        INSERT -> new row (NEW)
                                        UPDATE -> data old row with new data (OLD, NEW)
  END;
                                        DELETE -> old rows (OLD)
  $$
  DELIMITER;
Normalization
```

Codd's Rules



Singe Row Function $n i/p \rightarrow n o/p$

Window Functions -> OVER ()

1. Aggegrate Functions 2. Non Aggegrate Functions

Group Fur	nction
n i/p -> 1	. row
n i/p -> g	proup by condition -> m o/p

accid	txdate		amount	balance	
	2000-01-01 2000-01-02 2000-01-03 2000-01-04 2000-01-05 2000-01-06 2000-01-07	00:00:00 00:00:00 00:00:00 00:00:00	1000 2000 -500 -300 4000 -2000 -200	1000 2000 -500 -300 4000 -2000 -200	1000 3000 2500

```
CTE -> Common Table Expression
```

-- display emps with max (sal)

- 1. Non Recursive CTE
- 2. Recursive CTE

```
seq(start ,end){
    if(start>end)
         return;
    print(start)
    seq(start+1,end);
}
seq(1,5);
```