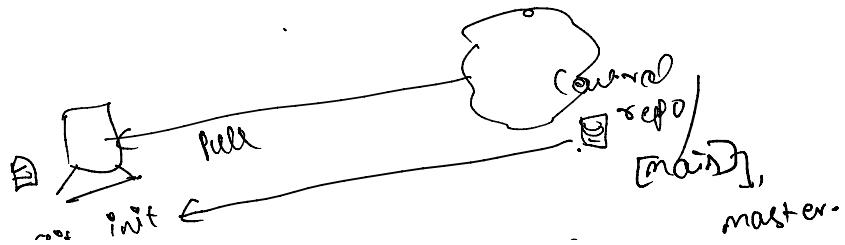
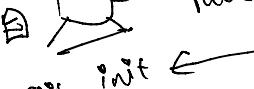


## git Commands

Pulling from central repo:

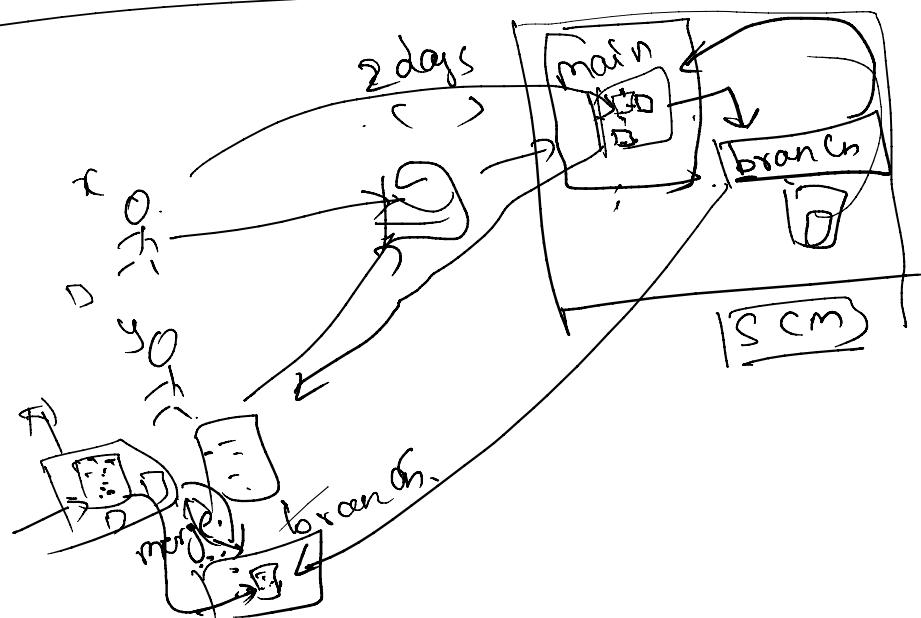



  
 \$ git init → [main],  
 master.  
 ① init empty repo->local  
 ② git pull --revert → -



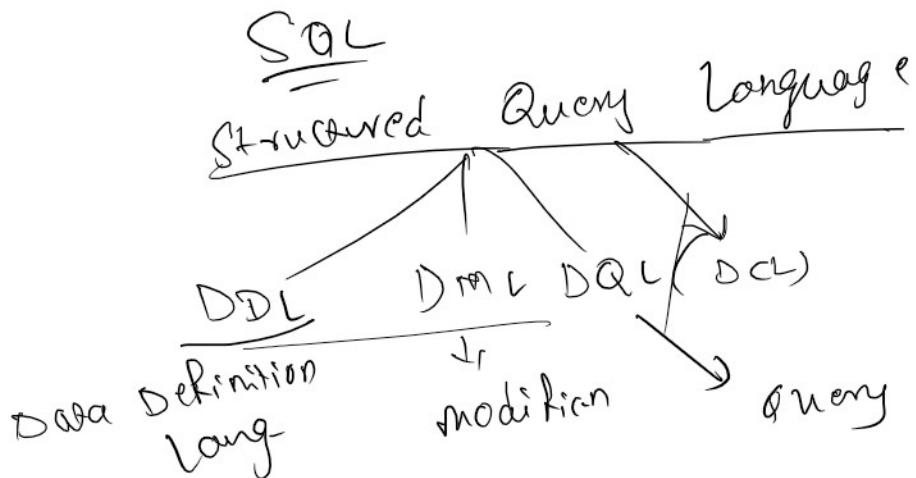
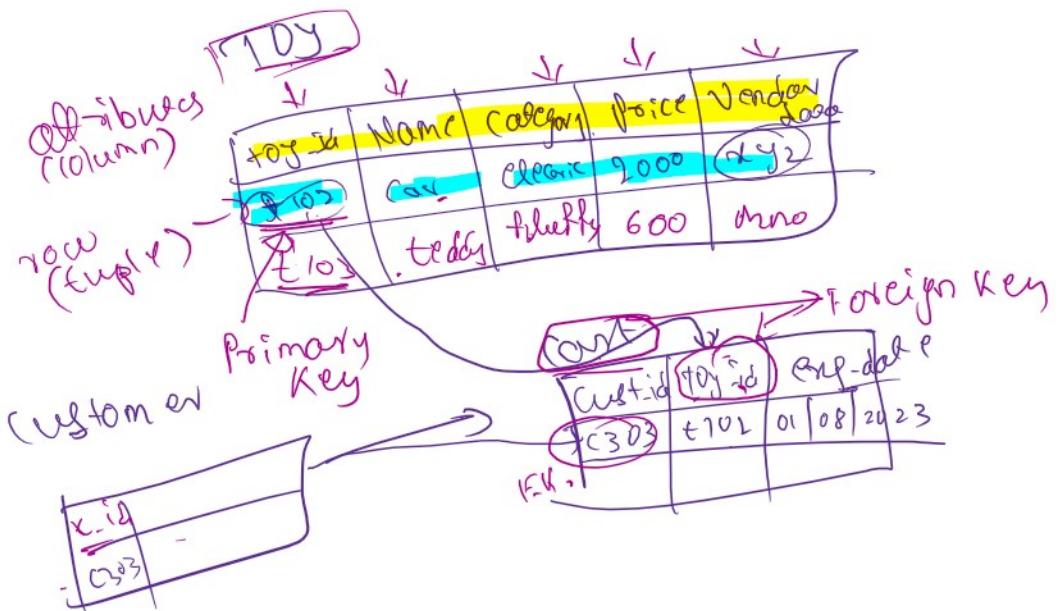
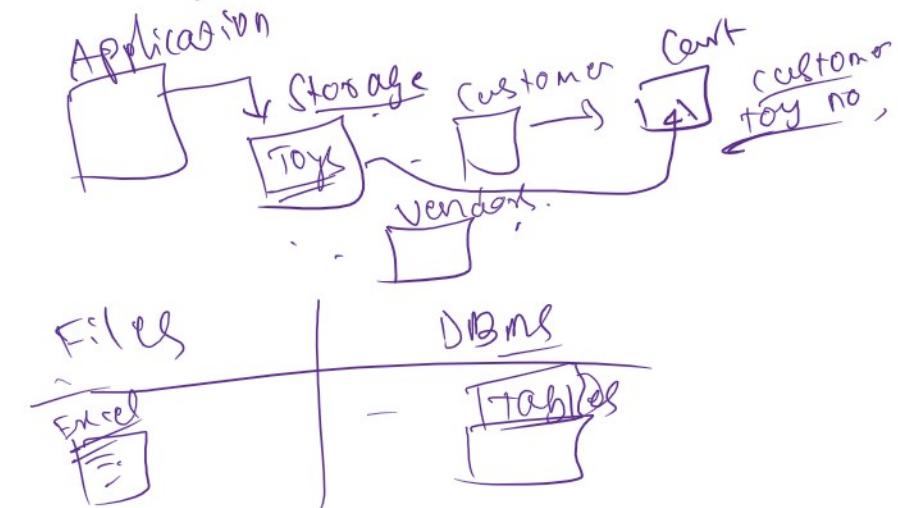
Branch: → create new branch  
 \$ git branch <branch.name>  
 → \$ git checkout -b <branch.name>  
 Create new branch & switch to branch.  
 \$ git checkout <branch.name> → switch to branch.

\$ git pull <origins> <branches>



## DBMS - MySQL

DBMS → Database management System.

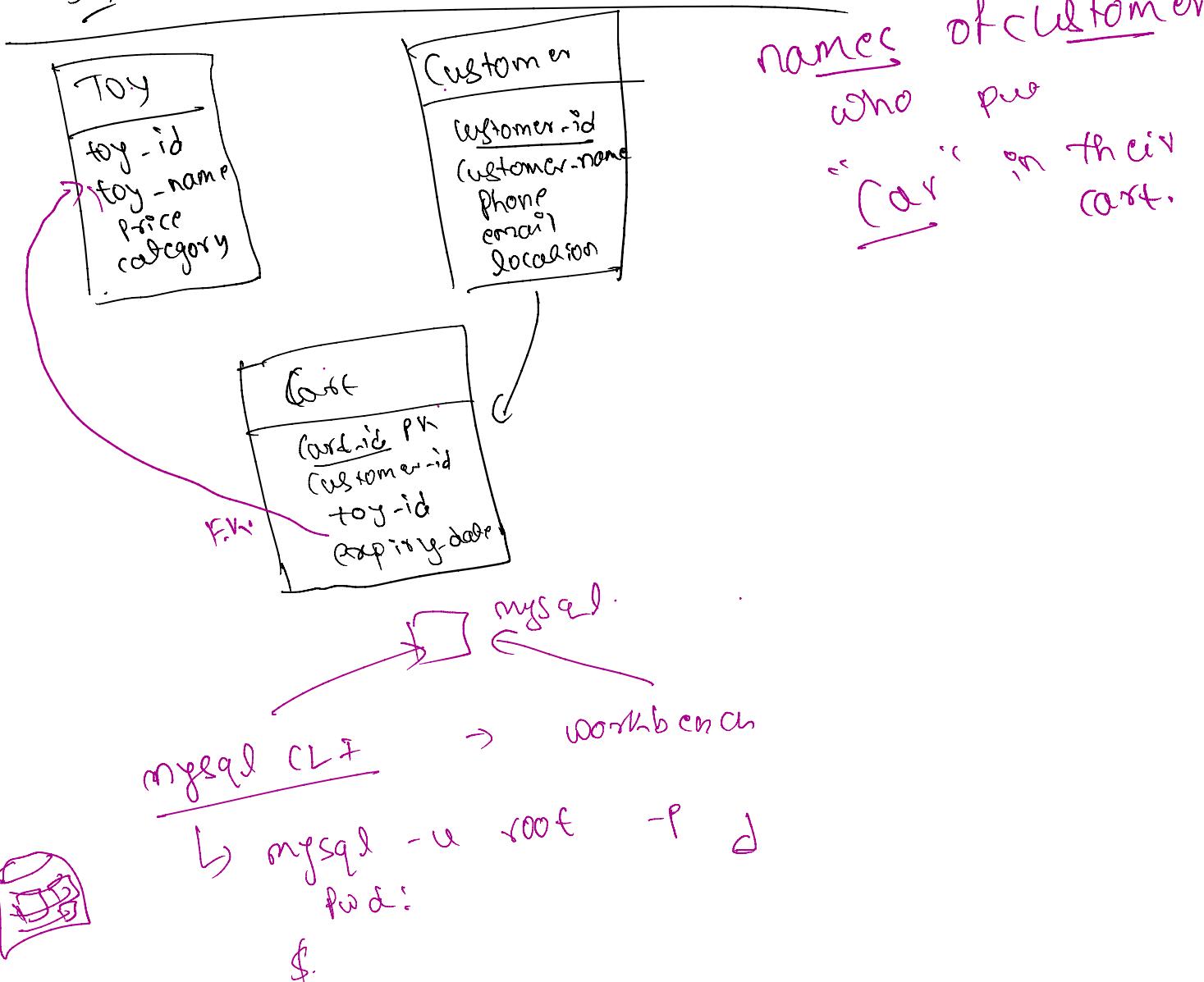


DDL: alter table, create table.  
drop.

DDL: alter table, create table  
drop

DML: insert, update, delete

DQL: select from - where



Commands:

```
$ create database <name>  
$ show databases  
$ use <database>
```

use database) in DB  
show tabs.

Create table CS<sup>non</sup>  
 ( attrib type , ← PK  
 :  
 ← constraints (PK, FK)

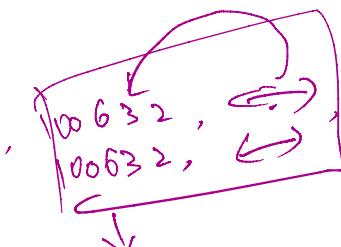
```
mysql> create table toy
-> (
-> toy_id int primary key,
-> toy_name varchar(40),
-> price int,
-> category varchar(30)
-> );
Query OK, 0 rows affected (0.12 sec)

mysql> show tables;
+-----+
| Tables_in_telstra_2023_b2 |
+-----+
| toy |
+-----+
1 row in set (0.00 sec)

mysql> desc toy;
+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+
| toy_id | int | NO | PRI | NULL |          |
| toy_name | varchar(40) | YES |          | NULL |          |
| price | int | YES |          | NULL |          |
| category | varchar(30) | YES |          | NULL |          |
+-----+
4 rows in set (0.00 sec)
```

```
create table customer
(
customer_id int primary key,
customer_name varchar(40),
phone bigint,
email varchar(40),
location varchar(30)
);

create table cart
(
cart_id int primary key,
customer_id int,
toy_id int,
expiry_date date,
foreign key (customer_id) references customer(customer_id),
foreign key (toy_id) references toy(toy_id)
);
```



insert

insert .  
insert into 2 tables values (' ', ' ', ' ', )  
  
yyyy - mm = DD

$$\underline{yyyy} - \underline{mm} = \underline{DD}$$

insert into toy values ('100234', 'car', 2500,  
 → 'electronic');

### Extract Data

#### Single table

\* Select  $\rightarrow$  attributes from  $\leftarrow$  table  
 where  $\leftarrow$  ? (condition)

∴

\* display toys with 'Electronic' category  
 select \* from toy where  
 category = 'Electronic';

\* select customers who are from 'delhi'

\* select toys whose price > 1000

\*

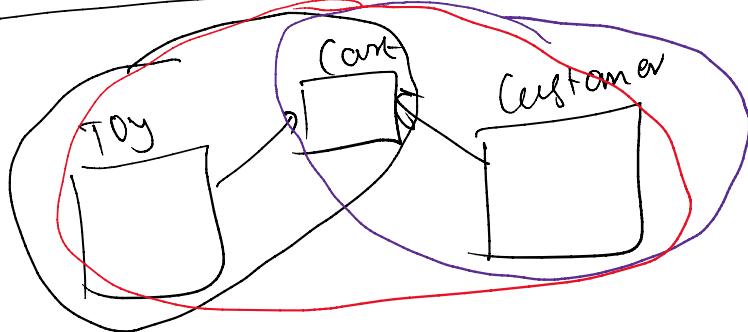
### Aggregate

MIN MAX AVG, SUM(price), COUNT  
 \* find the min price of toy, name.

\* list all toys that have price >  
 avg price of toys.

- find sum of all prices of toys

\* find sum of all prices of toys



\* count the no. of toys in cart for by  
customers 200163

order by : display values  
sorted by.

\* list toy names in the cart of  
customer id 200165

Select t.toy-name, c.customer-id, t.toy-id  
from toy t, cart c  
where c.customer-id = 200165 and  
t.toy-id = c.toy-id;

toy - customer

#

Combining 3 tables.

```
##### Combining Cart, Toy and Customer #####
#list the customer names who have put Toy "Helicopter" in their Cart

select cust.customer_name, t.toy_name
from toy t, customer cust, cart c
where t.toy_name='Helicopter' and
      t.toy_id=c.toy_id and
      c.customer_id = cust.customer_id;

#List the names of Toys in the cart of Customer 'Adam'
# List the toy name, customer name whose expiry on the cart is on or before '2023-08-01'
#List the Customer names who have toys in the cart whose price is > avg toy price
# find the total price of cart of 'Raghav'
#List the toy names and category of 'Shyam' s cart.
#List all the customer names who have toys in the cart with category 'Fluffed'
```