Constraints on the table

not null-----within a field null values are not allowed

unique------ no duplicate values are allowed

check-----allows data only if it satisfies given condition

primary key--------no duplicates and no null values

default-----if user enters null then the given value will be assigned

foreign key--------- checks the value exists in other column of same table or different table

on delete <action>

on update <action>

3 different actions

1. cascade-----changes made in parent table will be reflected in the child table
2. set null---------if parent table primary key values are changed then those values in child table are set to null
3. no action-------if any value is present in child table, then that value is not allowed to be removed or change from parent table

Why we use constraints

1. security
2. to avoid wrong input from user
3. data integrity

vehicle(vid,vname,price)

customer(custno,cname,address,email)

cust-vehicle(custid,vid, purachse date, discounted price)

one customer can have many vehicle

Vehicle

|  |  |  |
| --- | --- | --- |
| Vid | Vname | price |
| 100 | Activa | 80000 |
| 200 | santro | 700000 |
| 300 | Jupiter | 83000 |
|  |  |  |

customer

|  |  |  |
| --- | --- | --- |
| cid | Cname | Adress |
| 10 | Revati | Aundh |
| 20 | Rajan | Aundh |
| 30 | Anil | Baner |

vehicle-cust

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Custid | Vid | Registration num | Purchasedate | Discounted price |
| 10 | 100 | Mh12-1234 | 2010-02-05 | 70000 |
| 10 | 200 | Mh12-1111 | 2012-04-27 | 645000 |
| 20 | 100 | Mh12-1235 | 2010-02-05 | 70000 |
| 10 | 100 | Mh12-1567 | 2010-02-05 | 70000 |

create table vehicle\_cust(

vid int,

custid int,

p\_date date,

dis\_price decimal(9,2),

foreign key fk\_vid(vid) references vehicle(vid)

on delete no action

on update cascade,

foreign key fk\_cid(custid) references customer(cid)

on delete no action

on update cascade,

primary key(vid,custid)

)

create table customer(

cid int primary key,

cname varchar(20) not null,

address varchar(20)

)

create table vehicle(

vid int,

vname varchar(20),

price decimal(9,2),

primary key(vid)

)

create table myemp(

empid int primary key,

ename varchar(20),

mgr int,

job varchar(20),

foreign key fk\_mgr(mgr) references myemp(empid)

)

---------create table using auto\_increment

create table mytable(

-> id int primary key auto\_increment,

-> name varchar(20) not null,

-> email varchar(20));

-------change the starting value for auto\_increment

alter table mytable auto\_increment=1001;