```sql
mysql -u root -p
show databases
create database gestion_election;
use gestion_election;


create Table Election (
    type varchar(14) check(type in('Presidentielle', 'legislative', 'locale')),
    Annee smallint check(Annee > 2000),
    Date Date,
    constraint PK_Election Primary key (Type, Annee)
    );

desc election;

 create table Electeur
        (
    Numero integer check(value > 0),
    Nom varchar(15) Not Null,
    Prenom varchar(25) Not Null,
    Age Smallint check(value between 18 and 120),
    Sexe char(1) check(value in('M', 'F')),
    Adresse varchar(30),
    Bureau smallint,
    Centre varchar(30),
    constraint PK_Election primary key(Numero),
    constraint FK_Electeur_Bureau foreign key(Bureau, Centre) References Bureau(Numero, Centre)
        );


 create table Centre
        (
    Nom varchar(30),
    Adresse varchar(30),
    Type varchar(7) check(type in('Pilote', 'Normale')),
    constraint PK_Centre primary key(Nom)
        );

status ==> version de mysql

 create Table Bureau
        (
    Numero smallint check(value >0),
    Centre varchar(30),
    Nb_Inscrit integer check(value between 100 and 600),
    Type varchar(7) check(type in('Pilote', 'Normale')),
    President integer,
    constraint PK_Bureau primary key(Numero, Centre)

    ,
    constraint FK_Bureau_Centre foreign key(Centre) references Centre(Nom),
    constraint FK_Bureau_Electeur foreign key(President) references Electeur(Numero)
        );

 create table Conserner
        (
    Type_Election varchar(14),
    Annee_Election smallint,
    Centre varchar(30),
    constraint Pk_Conserner primary key(Type_Election, Annee_Election, Centre),
    constraint FK_Conserner_Election foreign key(Type_Election, Annee_Election) references Election(Type, Annee),
    constraint FK_Conserner_Centre foreign key(Centre) references Centre(Nom)
        );

 create table Gagner
        (
    Type_Election varchar(14),
    Annee_Election smallint,
    Electeur integer,
    constraint Pk_Gagner primary key(Type_Election, Annee_Election, Electeur),
    constraint FK_Gagner_Election foreign key(Type_Election, Annee_Election) references Election(Type, Annee),
    constraint FK_Gagner_Electeur foreign key(Electeur) references Electeur(Numero)
        );


show tables;

 create table representant(
    electeur integer

    ,
    bureau smallint,
    centre varchar(30),
    type_election varchar(14),
    Annee_Election smallint,
    constraint Pk_representant primary key(electeur,bureau,centre,Type_Election, Annee_Election),
    constraint FK_representant_Election foreign key(Type_Election, Annee_Election) references Election(Type, Annee),
    constraint FK_representant_Electeur foreign key(electeur) references Electeur(Numero),
    constraint FK_representant_bureau foreign key(bureau) references bureau(Numero),
    constraint FK_representant_centre foreign key(centre) references Centre(Nom));

/////////////////////////////////////
select * from Election;
insert into Election (type,Date,Annee) values('Local','2013-01-25',2013);

insert into Election values ('Legislative',2018,'2018-07-30'),
```

```sql
('Presidentielle',2020,'2020-03-12');

insert into Electeur values
(2457,'Gueye','Moustapha',59,'M','Tilene',1,'LDB'),
(2458,'Diatta','Fatima',32,'F','Boucotte',1,'LDB'),
(2459,'Seck','Abdallsah',65,'M','Tilene',2,'LDB'),
(2460,'Gueye','Fatima',18,'F','Kenia',2,'LOLB'),
(2461,'Faty','Faty',38,'F','Kenia',1,'LDB'),
(2462,'Gueye','Cheikh',32,'M','Diabir',2,'LOLB'),
(2463,'Diedhiou','Jean',32,'M','Tilene',2,'LOLB'),
(2464,'Ndiaye','Michelle',55,'F','Tilene',2,'LDB'),
(2465,'Fall','Fatoumata',75,'F','Diabir',2,'LDB');

insert into Bureau values
(1,'LOLB','Normale',360,2462),
(2,'LOLB','Normale',500,2465),
(1,'LPER','Normale',600,2457),
(1,'LDB','Normale',450,2464),
(2,'LDB','Normale',455,2461),
(3,'LDB','Normale',4400,2462),
(4,'LDB','Normale',500,2465);


insert into Centre values
('LDB','Nema','Normale'),
('LOLB','Djibock','Normale'),
('LPER','Perisack','Pilote');


insert into
```

LDD
```sql
mysql> alter table Election change Date dateElec date;
```


2- Ajuter l'attribut telephone a la table Election
```sql
mysql> alter table Election add telephone char(12) check(telephone like'##[' ']###[' ']##[' ']##');
```
On pouvais alller

3)Supprimer l'attribut Nb_Inscrit de la table bureau
```sql
mysql> alter table Bureau drop Nb_Inscrit;
```

LMD
1) Supprimer l'eclection legislative de la table Election
```sql
mysql> delete from Election where type='legislative';
```

2)Modifier l'annee de l'election presidentielle en(2019)

```sql
mysql> update Election set Annee=2019 where type='Presidentielle';
```

3)Ecriver les requetes suivantes
-a)Afficher la liste des electeurs du bureau 1 DU CENTRE LDB
```sql
mysql> select * from Electeur where Bureau=1 and Centre='LDB';
```


TP2)
1-Creer 2 utilisateurs
a-admin Passer01
```sql
->create user Admin@localhost identified by 'Passer01';
```

b-)Insiste Entrer01

```sql
->create user Invite@localhost identified by 'Entrer01'
```
Se connecter avec un utilisateur
```sql
->mysql -u (login) -p
```
Donner tous les privileges a un utilsateur

```sql
mysql> Grant All privileges on *.* to login@localhost with Grant option(il aura la possibiliter de nommer d'autres super users);
```
Pour actualiser apres nommination
```sql
flush privileges;
```

Donner quelque privileges a un utilsateur
```sql
 ->Grant Insert On NomBasedeDonne.nomdeTable to utilisateur@localhost;
 ->Grant Delete On NomBasedeDonne.nomdeTable to utilisateur@localhost;
```

3) Donner la possibilite de visualiser
le numero,lenom,le prenom
IL faut d'abord creer va vue
```sql
->create view Electeur_Invite as select Numero,Nom,Prenom from Electeur;
```
Ensuite donner les privileges
```sql
-> grant select on GestionElection.Electeur_Invite to Invite@localhost;
```


Supprimer un privilege
```sql
revoke (select) on nomdeBase nomView from utilisateur@localhost
```
exemple
```sql
revoke select on GestionElection.Electeur_Invite from Invite@localhost;
```