show databases;

use bank;

show tables;

SELECT \* FROM bank\_details;

select min(balance), age , job, marital from bank\_details;

insert into bank\_details values

(44,"technician","single","secondary","no",29,"yes","no","unknown",5,"may",151,1,-1,0,"unknown","no"),

(33,"entrepreneur","married","secondary","no",2,"yes","yes","unknown",5,"may",76,1,-1,0,"unknown","no"),

(47,"blue-collar","married","unknown","no",1506,"yes","no","unknown",5,"may",92,1,-1,0,"unknown","no"),

(33,"unknown","single","unknown","no",1,"no","no","unknown",5,"may",198,1,-1,0,"unknown","no"),

(35,"management","married","tertiary","no",231,"yes","no","unknown",5,"may",139,1,-1,0,"unknown","no"),

(28,"management","single","tertiary","no",447,"yes","yes","unknown",5,"may",217,1,-1,0,"unknown","no"),

(42,"entrepreneur","divorced","tertiary","yes",2,"yes","no","unknown",5,"may",380,1,-1,0,"unknown","no"),

(58,"retired","married","primary","no",121,"yes","no","unknown",5,"may",50,1,-1,0,"unknown","no"),

(43,"technician","single","secondary","no",593,"yes","no","unknown",5,"may",55,1,-1,0,"unknown","no"),

(41,"admin.","divorced","secondary","no",270,"yes","no","unknown",5,"may",222,1,-1,0,"unknown","no"),

(29,"admin.","single","secondary","no",390,"yes","no","unknown",5,"may",137,1,-1,0,"unknown","no"),

(53,"technician","married","secondary","no",6,"yes","no","unknown",5,"may",517,1,-1,0,"unknown","no"),

(58,"technician","married","unknown","no",71,"yes","no","unknown",5,"may",71,1,-1,0,"unknown","no"),

(57,"services","married","secondary","no",162,"yes","no","unknown",5,"may",174,1,-1,0,"unknown","no"),

(51,"retired","married","primary","no",229,"yes","no","unknown",5,"may",353,1,-1,0,"unknown","no"),

(45,"admin.","single","unknown","no",13,"yes","no","unknown",5,"may",98,1,-1,0,"unknown","no"),

(57,"blue-collar","married","primary","no",52,"yes","no","unknown",5,"may",38,1,-1,0,"unknown","no"),

(60,"retired","married","primary","no",60,"yes","no","unknown",5,"may",219,1,-1,0,"unknown","no"),

(33,"services","married","secondary","no",0,"yes","no","unknown",5,"may",54,1,-1,0,"unknown","no"),

(28,"blue-collar","married","secondary","no",723,"yes","yes","unknown",5,"may",262,1,-1,0,"unknown","no"),

(56,"management","married","tertiary","no",779,"yes","no","unknown",5,"may",164,1,-1,0,"unknown","no"),

(32,"blue-collar","single","primary","no",23,"yes","yes","unknown",5,"may",160,1,-1,0,"unknown","no"),

(25,"services","married","secondary","no",50,"yes","no","unknown",5,"may",342,1,-1,0,"unknown","no"),

(40,"retired","married","primary","no",0,"yes","yes","unknown",5,"may",181,1,-1,0,"unknown","no"),

(44,"admin.","married","secondary","no",-372,"yes","no","unknown",5,"may",172,1,-1,0,"unknown","no"),

(39,"management","single","tertiary","no",255,"yes","no","unknown",5,"may",296,1,-1,0,"unknown","no"),

(52,"entrepreneur","married","secondary","no",113,"yes","yes","unknown",5,"may",127,1,-1,0,"unknown","no"),

(46,"management","single","secondary","no",-246,"yes","no","unknown",5,"may",255,2,-1,0,"unknown","no"),

(36,"technician","single","secondary","no",265,"yes","yes","unknown",5,"may",348,1,-1,0,"unknown","no"),

(57,"technician","married","secondary","no",839,"no","yes","unknown",5,"may",225,1,-1,0,"unknown","no"),

(49,"management","married","tertiary","no",378,"yes","no","unknown",5,"may",230,1,-1,0,"unknown","no"),

(60,"admin.","married","secondary","no",39,"yes","yes","unknown",5,"may",208,1,-1,0,"unknown","no"),

(59,"blue-collar","married","secondary","no",0,"yes","no","unknown",5,"may",226,1,-1,0,"unknown","no"),

(51,"management","married","tertiary","no",10635,"yes","no","unknown",5,"may",336,1,-1,0,"unknown","no"),

(57,"technician","divorced","secondary","no",63,"yes","no","unknown",5,"may",242,1,-1,0,"unknown","no"),

(25,"blue-collar","married","secondary","no",-7,"yes","no","unknown",5,"may",365,1,-1,0,"unknown","no"),

(53,"technician","married","secondary","no",-3,"no","no","unknown",5,"may",1666,1,-1,0,"unknown","no"),

(36,"admin.","divorced","secondary","no",506,"yes","no","unknown",5,"may",577,1,-1,0,"unknown","no"),

(37,"admin.","single","secondary","no",0,"yes","no","unknown",5,"may",137,1,-1,0,"unknown","no"),

(44,"services","divorced","secondary","no",2586,"yes","no","unknown",5,"may",160,1,-1,0,"unknown","no"),

(50,"management","married","secondary","no",49,"yes","no","unknown",5,"may",180,2,-1,0,"unknown","no"),

(60,"blue-collar","married","unknown","no",104,"yes","no","unknown",5,"may",22,1,-1,0,"unknown","no"),

(54,"retired","married","secondary","no",529,"yes","no","unknown",5,"may",1492,1,-1,0,"unknown","no"),

(58,"retired","married","unknown","no",96,"yes","no","unknown",5,"may",616,1,-1,0,"unknown","no"),

(36,"admin.","single","primary","no",-171,"yes","no","unknown",5,"may",242,1,-1,0,"unknown","no"),

(58,"self-employed","married","tertiary","no",-364,"yes","no","unknown",5,"may",355,1,-1,0,"unknown","no"),

(44,"technician","married","secondary","no",0,"yes","no","unknown",5,"may",225,2,-1,0,"unknown","no"),

(55,"technician","divorced","secondary","no",0,"no","no","unknown",5,"may",160,1,-1,0,"unknown","no"),

(29,"management","single","tertiary","no",0,"yes","no","unknown",5,"may",363,1,-1,0,"unknown","no"),

(54,"blue-collar","married","secondary","no",1291,"yes","no","unknown",5,"may",266,1,-1,0,"unknown","no"),

(48,"management","divorced","tertiary","no",-244,"yes","no","unknown",5,"may",253,1,-1,0,"unknown","no"),

(32,"management","married","tertiary","no",0,"yes","no","unknown",5,"may",179,1,-1,0,"unknown","no"),

(42,"admin.","single","secondary","no",-76,"yes","no","unknown",5,"may",787,1,-1,0,"unknown","no"),

(24,"technician","single","secondary","no",-103,"yes","yes","unknown",5,"may",145,1,-1,0,"unknown","no"),

(38,"entrepreneur","single","tertiary","no",243,"no","yes","unknown",5,"may",174,1,-1,0,"unknown","no"),

(38,"management","single","tertiary","no",424,"yes","no","unknown",5,"may",104,1,-1,0,"unknown","no"),

(47,"blue-collar","married","unknown","no",306,"yes","no","unknown",5,"may",13,1,-1,0,"unknown","no"),

(40,"blue-collar","single","unknown","no",24,"yes","no","unknown",5,"may",185,1,-1,0,"unknown","no"),

(46,"services","married","primary","no",179,"yes","no","unknown",5,"may",1778,1,-1,0,"unknown","no"),

(32,"admin.","married","tertiary","no",0,"yes","no","unknown",5,"may",138,1,-1,0,"unknown","no"),

(53,"technician","divorced","secondary","no",989,"yes","no","unknown",5,"may",812,1,-1,0,"unknown","no"),

(57,"blue-collar","married","primary","no",249,"yes","no","unknown",5,"may",164,1,-1,0,"unknown","no"),

(33,"services","married","secondary","no",790,"yes","no","unknown",5,"may",391,1,-1,0,"unknown","no"),

(49,"blue-collar","married","unknown","no",154,"yes","no","unknown",5,"may",357,1,-1,0,"unknown","no"),

(51,"management","married","tertiary","no",6530,"yes","no","unknown",5,"may",91,1,-1,0,"unknown","no"),

(60,"retired","married","tertiary","no",100,"no","no","unknown",5,"may",528,1,-1,0,"unknown","no"),

(59,"management","divorced","tertiary","no",59,"yes","no","unknown",5,"may",273,1,-1,0,"unknown","no"),

(55,"technician","married","secondary","no",1205,"yes","no","unknown",5,"may",158,2,-1,0,"unknown","no"),

(35,"blue-collar","single","secondary","no",12223,"yes","yes","unknown",5,"may",177,1,-1,0,"unknown","no"),

(57,"blue-collar","married","secondary","no",5935,"yes","yes","unknown",5,"may",258,1,-1,0,"unknown","no"),

(31,"services","married","secondary","no",25,"yes","yes","unknown",5,"may",172,1,-1,0,"unknown","no"),

(54,"management","married","secondary","no",282,"yes","yes","unknown",5,"may",154,1,-1,0,"unknown","no"),

(55,"blue-collar","married","primary","no",23,"yes","no","unknown",5,"may",291,1,-1,0,"unknown","no"),

(43,"technician","married","secondary","no",1937,"yes","no","unknown",5,"may",181,1,-1,0,"unknown","no"),

(53,"technician","married","secondary","no",384,"yes","no","unknown",5,"may",176,1,-1,0,"unknown","no"),

(44,"blue-collar","married","secondary","no",582,"no","yes","unknown",5,"may",211,1,-1,0,"unknown","no"),

(55,"services","divorced","secondary","no",91,"no","no","unknown",5,"may",349,1,-1,0,"unknown","no"),

(49,"services","divorced","secondary","no",0,"yes","yes","unknown",5,"may",272,1,-1,0,"unknown","no"),

(55,"services","divorced","secondary","yes",1,"yes","no","unknown",5,"may",208,1,-1,0,"unknown","no"),

(45,"admin.","single","secondary","no",206,"yes","no","unknown",5,"may",193,1,-1,0,"unknown","no"),

(47,"services","divorced","secondary","no",164,"no","no","unknown",5,"may",212,1,-1,0,"unknown","no"),

(42,"technician","single","secondary","no",690,"yes","no","unknown",5,"may",20,1,-1,0,"unknown","no"),

(59,"admin.","married","secondary","no",2343,"yes","no","unknown",5,"may",1042,1,-1,0,"unknown","yes"),

(46,"self-employed","married","tertiary","no",137,"yes","yes","unknown",5,"may",246,1,-1,0,"unknown","no"),

(51,"blue-collar","married","primary","no",173,"yes","no","unknown",5,"may",529,2,-1,0,"unknown","no"),

(56,"admin.","married","secondary","no",45,"no","no","unknown",5,"may",1467,1,-1,0,"unknown","yes"),

(41,"technician","married","secondary","no",1270,"yes","no","unknown",5,"may",1389,1,-1,0,"unknown","yes"),

(46,"management","divorced","secondary","no",16,"yes","yes","unknown",5,"may",188,2,-1,0,"unknown","no"),

(57,"retired","married","secondary","no",486,"yes","no","unknown",5,"may",180,2,-1,0,"unknown","no"),

(42,"management","single","secondary","no",50,"no","no","unknown",5,"may",48,1,-1,0,"unknown","no"),

(30,"technician","married","secondary","no",152,"yes","yes","unknown",5,"may",213,2,-1,0,"unknown","no"),

(60,"admin.","married","secondary","no",290,"yes","no","unknown",5,"may",583,1,-1,0,"unknown","no");

select count(\*) from bank\_details;

select \* from bank\_details;

select age , loan , job from bank\_details;

select `default`from bank\_details;

select \* from bank\_details limit 5;

select \* from bank\_details where age = 33;

select \* from bank\_details where age > 60;

select \* from bank\_details where age = 60;

select \* from bank\_details where age = 60 and job = 'retired';

select \* from bank\_details where education = 'unknown' or marital = 'single';

select \* from bank\_details where (education = 'unknown' or marital = 'single') and balance <500;

select distinct job from bank\_details;

select \* from bank\_details order by age desc;

select \* from bank\_details;

select sum(balance) from bank\_details;

select avg(balance) from bank\_details;

select min(balance) from bank\_details;

select \* from bank\_details order by balance limit 1;

select \*, min(balance) from bank\_details;

select \* from bank\_details where balance in (select min(balance) from bank\_details);

select \* from bank\_details where balance = (select min(balance) from bank\_details);

select \* from bank\_details where balance = (select max(balance) from bank\_details);

select \* from bank\_details order by balance desc limit 1;

select max(balance) from bank\_details;

select \* from bank\_details where loan = 'yes';

select avg(balance) from bank\_details where job ='admin.';

select \* from bank\_details where age < 45 and job = 'unknown';

select \* from bank\_details where education = 'primary' and job = 'unknown';

select \* from bank\_details where balance < 0;

select balance , housing from bank\_details where housing = 'no';

select \* from bank\_details;

select avg(balance) from bank\_details where job = 'entrepreneur';

Delimiter &&

create procedure sudh()

begin

select \* from bank\_details;

End &&

call sudh();

Delimiter &&

create procedure avg\_bal(IN role varchar(30))

begin

select avg(balance) from bank\_details where job = role;

End &&

call avg\_bal('entrepreneur');

Create view bank\_view as select age, job, marital, education from bank\_details;

select avg(balance) from bank\_view where job = 'entrepreneur';

