

```
/* How many databases in your workbench */  
show databases
```

```
/*create database*/  
create database abhi_sql
```

```
/* which database you want to use */  
use abhi_sql
```

```
/*If the database doesn't exists then only it will be created else not */  
create database if not exists abhi_sql
```

```
/* create table in the database and  
inbuilt key words not used in mysql but  
we can use in built key words by using backtick (``) */
```

```
create table bank_details(  
age int,  
job varchar(30),  
marital varchar(30),  
education varchar(30),  
`default` varchar(30),  
balance int,  
housing varchar(30),  
loan varchar(30),  
contact varchar(30),  
`day` int,  
`month` varchar(30),  
duration int,  
campaign int,  
pdays int,  
previous int,  
poutcome varchar(30),  
y varchar(30))
```

```
/* show all data present in the table */  
select * from bank_details
```

```
/*insert data into the table */  
insert into bank_details  
values(58,"management","married","tertiary","no",2143,"yes","no","unknown",  
5,"may",261,1,-1,0,"unknown","no")
```

```
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,"ma  
y",139,1,-1,0,"unknown","no"),  
(28,"management","single","tertiary","no",447,"yes","yes","unknown",5,"ma  
y",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,"m
ay",160,1,-1,0,"unknown","no"),
(50,"management","married","secondary","no",49,"yes","no","unknown",5,"ma
y",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",61
6,1,-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,"m
ay",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 * from bank_details
```

```
/* how many data rows in table */
select count(*) from bank_details
```

```
/* how to show selected coulmn from the table */
select job,balance,loan from bank_details
```

```
select `default`,`day`,`month` from bank_details
```

```
/*how to show first 5 data rows */
select * from bank_details limit 5
```

```
/* where clause use when condition are apply */
select * from bank_details where age = 33
```

```
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' and marital = 'single') and balance < 500
```

```
select * from bank_details where (education = 'unknown' or marital = 'single') and balance < 500
```

```
/* how to show how many types of job role (use distinct) */
select distinct job from bank_details
```

```
/* how to show data rows ascending order
and descending order */
```

```
select * from bank_details order by age
select * from bank_details order by age desc
```

```
/* try to prepare a list of all the person who is having loan */
select * from bank_details where loan = 'yes'
```

```
/* try to find out a record without job whose age is below 45 */
select * from bank_details where job = 'unknown' and age < 45
```

```
/* try to find out a record where education is primary and person is jobless */
select * from bank_details where education = 'primary' and job = 'unknown'
```

```
/* try to find of a record whose bank account is having a negative balance */
```

```
select * from bank_details where balance < 0
```

```
/* try to find our a record who is not having house at all along with there balance */
```

```
select balance,housing from bank_details where housing = 'no'
```

```
/* with this data try to fine out sum of balance */
```

```
select sum(balance) from bank_details
```

```
/* Try to find out avarage of balance */
```

```
select avg(balance) from bank_details
```

```
/* try to find out who is having a min balance */
```

```
select *,min(balance) from bank_details /* this query is wrong */
```

```
select * from bank_details order by balance limit 1
```

```
select * from bank_details where balance in (select min(balance) from bank_details)
```

```
select * from bank_details where balance = (select min(balance) as MinBalance from bank_details)
```

```
/* try to find out who is having a maximum balance */
```

```
select *,max(balance) from bank_details /* this query is wrong */
```

```
select * from bank_details order by balance desc limit 1
```

```
select * from bank_details where balance in (select max(balance) from bank_details)
```

```
select * from bank_details where balance = (select max(balance) as MaxBalance from bank_details)
```

```
/* try to find out average balance for all the people whose job role is admin */
```

```
select avg(balance) from bank_details where job = 'admin.'
```