Create database:

age int,

```
The CREATE DATABASE statement is used to create a new SQL database.
Syntax:
CREATE DATABASE databasename;
E.g
CREATE DATABASE BankDetails;
The DROP DATABASE statement is used to drop an existing SQL database.
Syntax:
DROP DATABASE databasename;
E.g
DROP DATABASE BankDetails;
Create table:
The CREATE TABLE statement is used to create a new table in a database.
Syntax
CREATE TABLE table_name (
 column1 datatype,
 column2 datatype,
 column3 datatype,
 ....
);
E.g
create table if not exists bank_details(
```

```
job varchar(30),
marital varchar(30),
education varchar(30),
'default' varchar(30),
balance int);
A copy of an existing table can also be created using CREATE TABLE.
Syntax
CREATE TABLE new_table_name AS
  SELECT column1, column2,...
  FROM existing_table_name
  WHERE ....;
CREATE TABLE AccountsInfo AS
SELECT customername, contactname
FROM customers;
DROP TABLE:
The DROP TABLE statement is used to delete an existing table
Syntax
DROP TABLE table_name;
DROP TABLE student;
```

ALTER TABLE:

The ALTER TABLE statement allows you to modify an existing table's structure, including adding, modifying, or removing columns, adding or dropping indexes, changing the table name, and more. You can use multiple clauses in a single ALTER TABLE statement.

ALTER TABLE users

ADD COLUMN email VARCHAR(255);
ALTER TABLE students
MODIFY COLUMN age INT UNSIGNED;
ALTER TABLE example
CHANGE COLUMN old_name new_name INT;
ALTER TABLE products
DROP COLUMN description;
ALTER TABLE orders
ADD PRIMARY KEY (order_id);
ALTER TABLE old_table
RENAME TO new_table;
Use this dataset to perform above operations
https://archive.ics.uci.edu/ml/datasets/bank+marketing
https://archive.ics.uci.edu/ml/machine-learning-databases/00222/
https://docs.google.com/spreadsheets/d/1PihBy0shGRpgWOA_KTkkWZOE0L2wuw-F0mAE1bicifI/edit?usp=sharing
show databases
create database if not exists ineuron_fsda
use ineuron_fsda

```
create table if not exists 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))
select * from bank_details
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"),
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(33,"entrepreneur","married","secondary","no",2,"yes","yes","unknown",5,"may",76,1,-1,0,"unknown","no"),
(47,"blue-collar","married","unknown","no",1506,"ves","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", "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"),
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(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", "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"),
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(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", "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", "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"),
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(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 10
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' or marital = 'single') and balance < 500

select distinct job from bank_details

select * from bank_details

select * from bank_details order by age

select * from bank_details order by age desc
```

- 1. With this data try to fine out sum of balance
- 2. Try to find out avarage of balance
- 3. Try to find out who is having a min balance
- 4. Try to find out who is having a mazxmim balance
- 5. Try to prepare a list of all the person who is having loan
- 6. Try to find out average balance for all the people whose job role is admin
- 7. Try to find out a record without job whose age is below 45
- 8. Try to find out a record where education is primarty and person is jobless
- 9. Try to find of a record whose bank account is having a negative balance
- 10. Try to find our a record who is not having house at all along with there balance