```
create table Country (
    CountryName varchar(20),
    population int,
    TotalArea_sq_mi int,
    constraint country_name_pk primary key (CountryName)
);



Create table Gases (
    GasName varchar(20),
    Percentage varchar(4),
    Effect varchar(5000),
    constraint Gases_gasname_pk primary key (GasName)
);



Create table Industry (
    IndustryName varchar(30),
    PercentContribution varchar(4),
    GasName varchar (20),
    constraint ind_indname_pk primary key (IndustryName),
    constraint ind_gasname_fk foreign key (GasName) references gases(GasName)
);



Create table Greenhouse_Output (
    GreenhouseID varchar(2),
    CountryName varchar(20),
    IndustryName varchar(30),
    PercentGlobalOutput varchar(6),
    constraint gh_ghID_pk primary key (GreenhouseID),
    constraint gh_countryname_fk foreign key (CountryName) references
Country(CountryName),
    constraint gh_IndustryName_fk foreign key (IndustryName) references
Industry(IndustryName)
);

Insert into Country Values ('China', '1412000000', '3700000');
Insert into Country Values ('United States', '339900000', '3797000');
Insert into Country Values ('India','1380000000','1240000');
Insert into Country Values ('Russia','146000000','6600000');
Insert into Country Values ('Japan','126500000','145800');
Insert into Country Values ('Germany', '83800000','137800');
Insert into Country Values ('Canada', '37700000','3800000');
Insert into Country Values ('Iran', '84000000','636000');
Insert into Country Values ('South Korea','51300000','38300');
Insert into Country Values ('Indonesia','273500000','742000');
Insert into Country Values ('Saudi Arabia', '32400000', '800000');
Insert into Country Values ('Brazil', '206000000', '3280000');
Insert into Country Values ('Mexico', '123300000', '758000');
Insert into Country Values ('Australia', '24260000', '2970000');
Insert into Country Values ('South Africa', '56200000', '470000');
Insert into Country Values ('Turkey', '79800000', '302500');
Insert into Country Values ('United Kingdom', '66300000', '93700');
Insert into Country Values ('Italy', '60660000', '116300');
Insert into Country Values ('France', '64665000', '213000');
```

```
Insert into Country Values ('Poland', '37980000', '120700');
Insert into Country Values ('Taiwan', '23620000', '13970');
Insert into Country Values ('Thailand', '68970000', '198100');
Insert into Country Values ('Malaysia', '30685000', '127300');
Insert into Country Values ('Spain', '46635000', '195300');
Insert into Country Values ('Ukraine', '44714000', '233000');
Insert into Country Values ('Kazakhstan', '17831000', '1042000');
Insert into Country Values ('Egypt', '94447000', '387000');
Insert into Country Values ('United Arab Emirates', '9361000', '32000');
Insert into Country Values ('Vietnam', '93640000', '119700');
Insert into Country Values ('Argentina', '43508000', '1073000');


Insert into Gases Values ('Carbon Dioxide', '76', 'Carbon Dioxide is a heat
trapping gas that causes the atmosphere to increase in heat.
This increase in global temperatures ultimately causes a rise in sea levels due to
the melting of glaciers. Rising sea levels can
cause flooding which can ruin crops and even flood homes and crops.');
Insert into Gases Values ('Methane', '16', 'Methane is a heat trapping gas that has
a greater effect in warming the atmosphere per
molecule than carbon dioxide. Since a large percentage of methane comes from live
stock, methane is more liekly to stay ground level
over other green house gases. This increase in ground level methane is harmful for
humans because it lowers the level of oxygen
that is able to be breathed in. Since methane leaves the atmosphere through
oxidization, it helps create more carbon dioxide.');
Insert into Gases Values ('Nitrous Oxide', '6', 'Nitrous Oxide is a gas that heats
the atmosphere. It is also known as "laughing gas".
It is much more potent than carbon dioxide, which means its ability to heat up the
planet is much greater. An excess amount of nitrous
oxide can also cause breathing complications.');
Insert into Gases Values ('Fluorinated Gas', '2', 'Although fluorinated gases do
not damage the ozone layer, they do have a warming
effect on the atmosphere. Fluorinated gases are much greater at heating than carbon
dioxide. These gases are not really directly harmful
to human health.');


Insert into Industry Values ('Agriculture', '24', 'Nitrous Oxide');
Insert into Industry Values ('Electricity/Heat', '25', 'Carbon Dioxide');
Insert into Industry Values ('Transportation', '14', 'Carbon Dioxide');
Insert into Industry Values ('Industrial Energy', '21', 'Carbon Dioxide');
Insert into Industry Values ('Buildings', '6', 'Carbon Dioxide');


Insert into Greenhouse_Output Values ('1','China','Electricity/Heat','29.18');
Insert into Greenhouse_Output Values ('2','United
States','Electricity/Heat','14.02');
Insert into Greenhouse_Output Values ('3','India','Electricity/Heat','7.09');
Insert into Greenhouse_Output Values ('4','Russia','Electricity/Heat','4.65');
Insert into Greenhouse_Output Values ('5','Japan','Electricity/Heat','3.47');
Insert into Greenhouse_Output Values ('6','Germany','Electricity/Heat','2.17');
Insert into Greenhouse_Output Values ('7','Canada','Agriculture','1.89');
Insert into Greenhouse_Output Values ('8','Iran','Industrial Energy','1.80');
Insert into Greenhouse_Output Values ('9','South Korea','Electricity/Heat','1.69');
Insert into Greenhouse_Output Values ('10','Indonesia','Agriculture','1.48');
```

```
Insert into Greenhouse_Output Values ('11','Saudi
Arabia','Electricity/Heat','1.45');
Insert into Greenhouse_Output Values ('12','Brazil','Agriculture','1.29');
Insert into Greenhouse_Output Values ('13','Mexico','Transportation','1.23');
Insert into Greenhouse_Output Values ('14','Australia','Agriculture','1.16');
Insert into Greenhouse_Output Values ('15','South
Africa','Electricity/Heat','1.09');
Insert into Greenhouse_Output Values ('16','Turkey', 'Electricity/Heat', '1.03');
Insert into Greenhouse_Output Values ('17','United Kingdom',
'Transportation','1.03');
Insert into Greenhouse_Output Values ('18','Italy', 'Electricity/Heat','1.00');
Insert into Greenhouse_Output Values ('19','France','Transportation','0.93');
Insert into Greenhouse_Output Values ('20','Poland','Electricity/Heat','0.83');
Insert into Greenhouse_Output Values ('21','Taiwan','Electricity/Heat','0.77');
Insert into Greenhouse_Output Values ('22','Thailand','Electricity/Heat','0.76');
Insert into Greenhouse_Output Values ('23','Malaysia','Electricity/Heat','0.74');
Insert into Greenhouse_Output Values ('24','Spain','Transportation','0.70');
Insert into Greenhouse_Output Values ('25','Ukraine','Electricity/Heat','0.65');
Insert into Greenhouse_Output Values ('26','Kazakhstan','Electricity/Heat','0.65');
Insert into Greenhouse_Output Values ('27','Egypt','Electricity/Heat','0.61');
Insert into Greenhouse_Output Values ('28','United Arab
Emirates','Transportation','0.61');
Insert into Greenhouse_Output Values ('29','Vietnam','Electricity/Heat','0.58');
Insert into Greenhouse_Output Values ('30','Argentina','Agriculture','0.56');



#List all the countries and populations in the database.
select countryname, population from country;



#List any country that ends is "sia" and its population.
select countryname, population from country where countryname like "%sia%";



#List any country with a K and its population where the country main polluting
industry is electricity/heat.
select country.countryname, population
from country where country.countryname like "%K%"
and countryname in (select countryname from greenhouse_output
where industryname like "%electricity%" group by industryname);



#How many gases are in your database?
select count(gasname) from gases;



#Show the percent global output of each country where the country's population is
larger than 100,000,000.
select percentglobaloutput, country.countryname, population from greenhouse_output
inner
join country where population > '100000000' and greenhouse_output.countryname =
country.countryname;
```

```
#Display the industry name for any industries that produce primarily nitrous Oxide
select industryname, gasname from industry where gasname = any
(select gasname from gases where gasname = 'Nitrous Oxide');



#For the industries listed, what are the combined global output percentages for
each specific industry?
select industryname, sum(percentglobaloutput) as 'Total Global Industry Output'
from greenhouse_Output group by industryname;
```