

```

CREATE TABLE focos (
    nr          INT          PRIMARY KEY,
    lat         REAL,
    long        REAL,
    latGMS     VARCHAR,
    longGMS    VARCHAR,
    data        DATE,
    hora        INT,
    satelite    VARCHAR,
    municipio  VARCHAR,
    codmunicipio INT,
    estado      TEXT( 2 ),
    pais        VARCHAR,
    vegetacao   VARCHAR,
    susceptibilidade VARCHAR( 25 ),
    precipitacao  REAL,
    numdiassemchuva INT,
    risco        REAL,
    bioma        VARCHAR
);

insert into focos values(1,-23.13600,-45.76700,'S 23 08 09','0 45 46 01',
20110123,132000,'TERRA_M-T','S,,o JosÈ dos Campos',
354990,'SP','Brasil','OmbrofilaDensa','MEDIA',180.5,2,0.01,'Mata
Atlantica');
insert into focos values(2,-23.80200,-45.40900,'S 23 48 07','0 45 24 32',
20110123,132000,'TERRA_M-T','S,,o Sebasti,,o',
355070,'SP','Brasil','OmbrofilaDensa','BAIXA',312.3,1,0.004,'Mata
Atlantica');
insert into focos values(3,-23.63000,-45.42600,'S 23 37 48','0 45 25 33',
20110127,171500,'AQUA_M-T','Caraguatatuba',
351050,'SP','Brasil','OmbrofilaDensa','BAIXA',210.9,5,0.05,'Mata
Atlantica');
insert into focos values(4,-23.78400,-45.40600,'S 23 47 02','0 45 24 21',
20110128,133500,'TERRA_M-T','S,,o Sebasti,,o',
355070,'SP','Brasil','OmbrofilaDensa','BAIXA',155.3,5,0.003,'Mata
Atlantica');
insert into focos values(5,-22.67100,-45.00900,'S 22 40 15','0 45 00 32',
20110202,164000,'AQUA_M-T','Cachoeira Paulista',
350860,'SP','Brasil','OmbrofilaDensa','MEDIA',73.1,0,0.45,'Mata
Atlantica');
insert into focos values(6,-22.92200,-45.39900,'S 22 55 19','0 45 23 56',
20110208,132000,'TERRA_M-T','Pindamonhangaba',
353800,'SP','Brasil','OmbrofilaDensa','MEDIA',57.7,3,0.1,'Mata Atlantica');
insert into focos values(7,-22.80300,-44.86400,'S 22 48 10','0 44 51 50',
20110208,132000,'TERRA_M-T','Silveiras',
355200,'SP','Brasil','OmbrofilaDensa','BAIXA',67.8,4,0.21,'Mata
Atlantica');
insert into focos values(8,-22.80200,-44.87400,'S 22 48 07','0 44 52 26',
20110208,132000,'TERRA_M-T','Silveiras',

```

```
355200,'SP','Brasil','OmbrofilaDensa','BAIXA',67.8,4,0.23,'Mata
Atlantica');
insert into focos values(9,-23.10667,-45.70167,'S 23 06 24','0 45 42 06',
20110208,223058,'NOAA-16','CaÁapava',
33897,'SP','Brasil','EstacionalSemidecidual','BAIXA',70.4,3,0.5,'Mata
Atlantica');
insert into focos values(10,-23.80200,-45.41100,'S 23 48 07','0 45 24 39',
20110209,164500,'AQUA_M-T','S,o Sebasti,o',
355070,'SP','Brasil','OmbrofilaDensa','BAIXA',46.8,4,0.002,'Mata
Atlantica');
insert into focos values(11,-23.65200,-45.50400,'S 23 39 07','0 45 30 14',
20110222,133000,'TERRA_M-T','Caraguatatuba',
351050,'SP','Brasil','OmbrofilaDensa','BAIXA',67.9,2,00.03,'Mata
Atlantica');
insert into focos values(12,-22.85000,-45.34000,'S 22 51 00','0 45 20 24',
20110315,073642,'NOAA-15D','Pindamonhangaba',
353800,'SP','Brasil','EstacionalSemidecidual','MEDIA',175.1,1,0.09,'Mata
Atlantica');
insert into focos values(13,-22.80700,-45.19400,'S 22 48 25','0 45 11 38',
20110315,163500,'AQUA_M-T','Guaratinguet.',
351840,'SP','Brasil','EstacionalSemidecidual','MEDIA',175.1,1,0012,'Mata
Atlantica');
insert into focos values(14,-22.80800,-45.20700,'S 22 48 28','0 45 12 25',
20110315,163500,'AQUA_M-T','Guaratinguet.',
351840,'SP','Brasil','EstacionalSemidecidual','MEDIA',175.1,1,0.087,'Mata
Atlantica');
insert into focos values(15,-22.80800,-45.20100,'S 22 48 28','0 45 12 03',
20110315,163500,'AQUA_M-T','Guaratinguet.',
351840,'SP','Brasil','EstacionalSemidecidual','MEDIA',175.1,1,0.01,'Mata
Atlantica');
insert into focos values(16,-22.77700,-45.14100,'S 22 46 37','0 45 08 27',
20110414,164500,'AQUA_M-T','Guaratinguet.',
351840,'SP','Brasil','EstacionalSemidecidual','MEDIA',29.6,0,0.02,'Mata
Atlantica');
insert into focos values(17,-22.77900,-45.15100,'S 22 46 44','0 45 09 03',
20110414,164500,'AQUA_M-T','Guaratinguet.',
351840,'SP','Brasil','EstacionalSemidecidual','MEDIA',29.6,0,0.03,'Mata
Atlantica');
insert into focos values(18,-22.90000,-44.98000,'S 22 54 00','0 44 58 48',
20110425,004500,'GOES-12','Lorena',
352720,'SP','Brasil','OmbrofilaDensa','MEDIA',28.3,4,0.15,'Mata
Atlantica');
insert into focos values(19,-22.88000,-45.96000,'S 22 52 48','0 45 57 36',
20110509,001500,'GOES-12','S,o JosÈ dos Campos',
354990,'SP','Brasil','OmbrofilaDensa','BAIXA',25,5,0.42,'Mata Atlantica');
insert into focos values(20,-22.69000,-45.37000,'S 22 41 24','0 45 22 12',
20110513,000000,'GOES-12','Guaratinguet.',
351840,'SP','Brasil','EstacionalSemidecidual','MEDIA',34.3,0,0.31,'Mata
Atlantica');
```

```

SELECT COUNT(*) FROM focos;

SELECT DISTINCT satelite FROM focos;

SELECT COUNT(DISTINCT satelite) FROM focos;

SELECT MAX(precipitacao) AS maxprec FROM focos;

SELECT AVG(risco) AS meanrisco FROM focos;

SELECT vegetacao, AVG(risco) FROM focos GROUP BY vegetacao;

SELECT nr, municipio, risco
FROM   focos
WHERE  risco=(SELECT MAX(risco) FROM focos);

SELECT satelite, municipio, risco
FROM   focos f1
WHERE  risco=(SELECT MAX(f2.risco)
              FROM focos f2
              WHERE f1.satelite = f2.satelite);

```

--- Municipios

```

CREATE TABLE municipios (
    cod          INT           PRIMARY KEY,
    nome         VARCHAR,
    pop_h        INT,
    pop_m        INT,
    pop_urb      INT,
    pop_rural    INT,
    area         REAL
);

insert into municipios values(350970, 'CAMPOS DO JORDAO',
18186,17830,35577,439,289.5098);
insert into municipios values(350995, 'CANAS',1558,1490,0,0,50.75724);
insert into municipios values(351050, 'CARAGUATATUBA',
34354,33044,63627,3771,483.68916);
insert into municipios values(351340, 'CRUZEIRO',
35498,36657,69501,2654,304.5714);
insert into municipios values(351360, 'CUNHA',
11279,10362,10114,11527,1407.117);
insert into municipios values(351840, 'GUARATINGUETA',
48157,50108,92107,6158,751.4397);
insert into municipios values(352020, 'IGARATA',
3109,2958,4365,1702,293.3102);
insert into municipios values(352440, 'JACAREI',
83594,84157,158180,9571,460.0499);

```

```
insert into municipios values(350250, 'APARECIDA',  
16929,17389,33874,444,120.9312);  
insert into municipios values(352490, 'JAMBEIRO',  
1802,1655,1532,1925,183.7494);  
insert into municipios values(352630, 'LAGOINHA',  
2696,2405,2617,2484,255.9196);  
insert into municipios values(352660, 'LAVRINHAS',  
2817,2656,4604,869,166.8611);  
insert into municipios values(352720, 'LORENA',  
35813,37483,72789,3555,416.4842);  
insert into municipios values(353170, 'MONTEIRO LOBATO',  
1731,1600,1295,2036,332.7364);  
insert into municipios values(350315, 'ARAPEI', 1161,1177,1615,723,153.3221);  
insert into municipios values(353230, 'NATIVIDADE DA SERRA',  
3574,3190,2795,3969,832.6088);  
insert into municipios values(353560, 'PARAIBUNA',  
7280,6899,4940,9239,809.7964);  
insert into municipios values(350350, 'AREIAS',  
1769,1697,2369,1097,306.5517);  
insert into municipios values(353800, 'PINDAMONHANGABA',  
57050,56887,106897,7040,730.1525);  
insert into municipios values(353850, 'PIQUETE',  
7401,7698,14203,896,175.8843);  
insert into municipios values(354075, 'POTIM', 6363,6100,11749,714,44.6355);  
insert into municipios values(354190, 'QUELUZ',  
4145,4206,7132,1219,249.4425);  
insert into municipios values(354230, 'REDENCAO DA SERRA',  
2015,1725,1636,2104,309.0968);  
insert into municipios values(354430, 'ROSEIRA',  
3737,3645,6526,856,130.1868);  
insert into municipios values(354600, 'SANTA BRANCA',  
10206,9841,16295,3752,275.0042);  
insert into municipios values(354820, 'SANTO ANTONIO DO PINHAL',  
2978,2826,2660,3144,132.9055);  
insert into municipios values(354860, 'SAO BENTO DO SAPUCAI',  
4653,4541,4628,4566,250.5298);  
insert into municipios values(354960, 'SAO JOSE DO BARREIRO',  
2162,1939,2103,1998,570.685);  
insert into municipios values(354990, 'SAO JOSE DOS CAMPOS',  
241760,244707,462429,23738,1099.572);  
insert into municipios values(355000, 'SAO LUIS DO PARAITINGA',  
5270,4961,5796,4435,617.1348);  
insert into municipios values(350490, 'BANANAL',  
4457,4544,6589,2412,618.6774);  
insert into municipios values(355070, 'SAO SEBASTIAO',  
22449,21396,43696,149,400.97);  
insert into municipios values(355200, 'SILVEIRAS',  
2661,2579,2056,3184,414.688);  
insert into municipios values(355410, 'TAUBATE',  
109040,111190,210338,9892,625.9347);
```

```
insert into municipios values(355480, 'TREMEMBE',  
16783,15312,28125,3970,192.4008);  
insert into municipios values(355540, 'UBATUBA',  
28126,26907,53745,1288,711.33052);  
insert into municipios values(352040, 'ILHABELA',  
6774,6326,12824,276,347.40853);  
insert into municipios values(350850, 'CACAPAVA',  
33897,34220,60432,7685,369.914);  
insert into municipios values(350860, 'CACHOEIRA PAULISTA',  
12724,12749,20441,5032,287.8468);  
  
-- Descubra os municipios com maior onde a populacao rural é maior que a  
urbana  
-- Descubra os municipios onde a populacao feminina é maior que a  
masculinha e a populacao rural é maior que a urbana  
-- Descubra o municipio com a maior area (e com a menor)  
  
-- Descubra o numero de focos por municipio  
-- Descubra a taxa de focos por km2 por municipio.
```