## For Local Price

Construction Type	Local Price
-Aparot ment	4.9176, 4.5573, 5.0597, 14.4598, 5.05, 8.24(4, 9.0384
Condo	4.5429, 3.891, 5.898, 16. 4202, 5 9592, 7.7841
House	5.0208,5.6039,5.8282,5.3003,6.2712,5.6039,6.869

Mean for Aparetment = 4.9171 + 4.5573+5.0597+14.1598 + 5.05+ 8.2169+9.0389

= 7.3327

Mean for Condo = 4.5429 + 3.891 + 5.898 + 16.9202 + 5.9592 + 7.7841

= 7.4159

mean fon House = 5.0208+5.6039+5.8282+5.3003+6.27.12+5.6039+6.6969

= 5.7607

Standard deviation, = \[ \frac{1}{n-1} \ge (\frac{1}{2} - \frac{1}{2})^{\frac{1}{2}} \]

S.D. for Aparotinent =  $\sqrt{\frac{1}{(7-1)}} \left\{ (4.9176 - 7.3327)^{2} + (4.5573 - 7.3327)^{2} + (5.0597 - 7.3327)^{2} + (14.4598 - 7.3327)^{2} + (5.05 - 7.3327)^{2} + (8.2464 - 7.3327)^{2} + (9.0384 - 7.3327)^{2} \right\}$ 

= 3.6160

50 for condo =  $\sqrt{\frac{1}{(6-1)}}\frac{3}{3}(4.5429-7.4159)+(3.891-7.4159)}$ + (5.898-7.4159)+(16.4202-7.4159)+ (5.9592-7.4159)+(7.7841-7.4159)

= 4.6112

50 for House =  $\sqrt{\frac{1}{(7-1)}} \left\{ (5.0208 - 5.7607)^{2} + (5.6039 - 5.7607)^{2} + (5.8282 - 5.7607)^{2} + (5.3003 - 5.7607)^{2} + (5.2712 - 5.7607)^{2} + (5.6039 - 5.7607)^{2} + (6.6969 - 5.7607)^{2} \right\}$  = 0.5701

## For Bathnooms

Construction Type	Bathmooms
Apartment	1,1,1,2,5,1,1,5,1
Condo	1,1,1,2.5,1,1.5
House	1,1,1,1,1,15
Mean for Condo =	$ \frac{1+1+1+2.5+1.+1.5+1}{2} = 1.2857 $ $ \frac{1+1+1+2.5+1.+1.5}{6} = 1.3333 $ $ \frac{1+1+1+1+1+1+1.5}{2} = 1.0714 $ $ = \sqrt{\frac{1}{(7-1)}} \left\{ (1-1.2857) + (1-$
=	$ \sqrt{\frac{1}{(6-1)}} \left\{ (1-1.3333)^{2} + (1-1.3333)^{2} + (1-1.3333)^{2} + (1-1.3333)^{2} + (1-1.3333)^{2} + (1-1.3333)^{2} + (1-1.3333)^{2} + (1-1.0714)^{2} + (1$

= 0.1890

## Similarly

Construction Type	Local price	Mean	50
Apantment	4.9176,4.5573,5.0597,14.4598,5.05,	7-3327	3.(160
Condo	4.5729,3.891.5.098,16-4202,5.9592,	7.4159	4-6112
House	5.6039, 6.6969	5.7607	0.5301

Construction Type	Bathnooms	Mean	SD
Apartment	1,1,1,2.5,1,1.5,1	1.2857	0.5669
Condo	1, 1, 1, 2.5, 1, 1.5	1.3333	0.6055
House	1,1,1,1,1,1.5	1.0714	0.1890

Constanction Type	Land Anea	Mean	50 )
Apantment	3.472, 4.05, 4.455, 12.8,5,5.15, 7.8	6.1039	3.2585
Condo	2.275, 4.155, 5.85, 9.8, 6.666, 7.102	6.025	2.5448
House	3.531, 9.52, 6.435, 4.9883, 5.52, 9.52, 6.902	6.6369	2.29.90

eonstruction_ Type	Living Anea	Meun	sp
Aparotment	0.998, 1.232, 1.121, 3, 1.02, 1.664,1.5	1.505	0.7091
Condo	1.175,0.988,1.24,342,1.121,1.376	1.5533	0.9234
House	1.5, 1.501, 1.225, 1.55, 0.975, 1.501, 1.488	1.39 17	0-2129

Construction_ Type	Gramages	Mean	SD
Apantment	1, 1, 1, 2, 0, 2, 1.5	1.2143	0.6986
Condo	1, 1, 1, 2, 2,1	1.3333	0.5164
House	2,0,2.1,1,0.1.5	1.0714	0.8381

			and the
Constanction_ Type	Rooms	Mean	SØ
Apantment	7,6,6,9,5,8,7	6.8571	1-3452
Condo	6,6,7,10,6,6	6.8333	1.6021
House	7,6,6,6,5,6,7	6.1429	0.6901

]			6
Construction	Bednooms	mean	5D
Apantment	4,3,3,5,2,4,3	3.4286	0.9759
Condo	3,3,3,5,3,3	3-3333	0.8165
House	4, 3, 3, 3, 2, 3, 3	3	0.5774

		The state of the s	
Construction	Age of home	Mean	Sp
Apantmen +	42,54,42,14,46,50,23	38.7143	19.6824
Condo	40,56,51,42,32,17	39.6667	13.9523
House	62,32,32,30,30,32,22	34.2857	12.7242

Monmal distribution, 
$$p(26|C=C1) = \frac{1}{\sqrt{2\pi}\sigma_{13}} e^{\frac{1}{2\sigma^{2}}}$$

P(local price = 6.0931 | class = Apartment) =  $\frac{1}{\sqrt{2\pi}(3.616)} e^{\frac{1}{2\sigma^{2}}} \frac{e^{\frac{1}{2\sigma^{2}}} \frac{e^{\frac{1}{2\sigma^{2}}}}{2\times(3.616)^{2\sigma^{2}}}}$ 

= 0.1090

P(Bathmoom = 1.5 | dass = Apartment) =  $\frac{1}{\sqrt{2\pi}(0.5669)} e^{\frac{1}{2\sigma^{2}}} \frac{e^{\frac{1}{2\sigma^{2}}} \frac{e^{\frac{1}{2\sigma^{2}}}}{2\times(0.5669)^{2\sigma^{2}}}}$ 

= 0.6552

P(land Anex = 6.7265 | class = Apartment) =  $\frac{1}{\sqrt{2\pi}(3.2525)} e^{\frac{1}{2\sigma^{2}}} \frac{e^{\frac{1}{2\sigma^{2}}} \frac{e^{\frac{1}{2\sigma^{2}}}}{2\times(3.2585)^{2\sigma^{2}}}}$ 

= 0.1202

P(bving Area = 1.652 | dass = Apartment) =  $\frac{1}{\sqrt{2\pi}(0.7041)} e^{\frac{1}{2\sigma^{2}}} \frac{e^{\frac{1}{2\sigma^{2}}} \frac{e^{\frac{1}{2\sigma^{2}}}}{2\times(0.7041)^{2\sigma^{2}}}}$ 

= 0.5544

$$P(\text{Rooms} = 6 \mid \text{Class} = \text{Apantment}) = \frac{1}{\sqrt{2\pi(1.3452)}} e^{\frac{1}{2} \times (1.3452)^{2}}$$

$$= 0.2421$$

P (Bedrooms = 3 | class = Aparitment) = 
$$\frac{1}{\sqrt{2\pi}(0.9259)}$$
 =  $\frac{3 - (3 - 3.4286)^2}{2\times(0.9259)^2}$  =  $\frac{3 - (3 - 3.4286)^2}{2\times(0.9259)^2}$ 

P(Local Price = 8.3607 | Class = Apartment) = 0.1060

P(Bathroom = 1.5 | Class = Apartment) = 0.6552

P(Land Area = 9.15 | Class = Apartment) = 0.0791

P(Living Area = 1.777 | Class = Apartment) = 0.5259

P(Garage = 2 | Class = Apartment) = 0.3034

P(Rooms = 8 | Class = Apartment) = 0.2067

P(Bedrooms = 4 | Class = Apartment) = 0.3444

P(Age of Homes = 48 | Class = Apartment) = 0.0222

P(Local Price = 8.3607 | Class = Condo) = 0.0847

P(Bathroom = 1.5 | Class = Condo) = 0.6344

P(Land Area = 9.15 | Class = Condo) = 0.0738

P(Living Area = 1.777 | Class = Condo) = 0.4195

P(Garage = 2 | Class = Condo) = 0.3357

P(Rooms = 8 | Class = Condo) = 0.1910

P(Bedrooms = 4 | Class = Condo) = 0.3501

P(Age of Homes = 48 | Class = Condo) = 0.0239

P(Local Price = 8.3607 l Class = House) =  $2.131 \times 10^{-5}$ 

P(Bathroom = 1.5 | Class = House) = 0.1613

P(Land Area = 9.15 | Class = House) = 0.0947

P(Living Area = 1.777 | Class = House) = 0.3643

P(Garage = 2 | Class = House) = 0.2577

P(Rooms = 8 | Class = House) = 0.0155

P(Bedrooms = 4 | Class = House) = 0.1542

P(Age of Homes = 48 | Class = House) = 0.0175

P(Local Price = 8.14 | Class = Apartment) = 0.1076

P(Bathroom = 1 | Class = Apartment) = 0.6198

P(Land Area = 8 | Class = Apartment) = 0.1034

P(Living Area = 1.504 | Class = Apartment) = 0.5666

P(Garage = 2 | Class = Apartment) = 0.3034

P(Rooms = 7 | Class = Apartment) = 0.2949

P(Bedrooms = 3 | Class = Apartment) = 0.3712

P(Age of Homes = 3 I Class = Apartment) =  $1.410 \times 10^{-3}$ 

P(Local Price = 8.14 | Class = Condo) = 0.0855

P(Bathroom = 1 | Class = Condo) = 0.5662

P(Land Area = 8 | Class = Condo) = 0.1160

P(Living Area = 1.504 | Class = Condo) = 0.4314

P(Garage = 2 | Class = Condo) = 0.3357

P(Rooms = 7 | Class = Condo) = 0.2477

P(Bedrooms = 3 | Class = Condo) = 0.4495

P(Age of Homes =  $3 \cdot \text{Class} = \text{Condo}$ ) =  $9.048 \times 10^{-4}$ 

 $P(Local Price = 8.14 | Class = House) = 1.155 \times 10^{-4}$ 

P(Bathroom = 1 | Class = House) = 1.9654

P(Land Area = 8 | Class = House) = 0.1474

P(Living Area = 1.504 | Class = House) = 1.6305

P(Garage = 2 | Class = House) = 0.2577

P(Rooms = 7 | Class = House) = 0.2673

P(Bedrooms = 3 | Class = House) = 0.6909

P(Age of Homes = 3 I Class = House) =  $1.526 \times 10^{-3}$ 

P(Local Price = 9.1416 | Class = Apartment) = 0.0973

P(Bathroom = 1.5 | Class = Apartment) = 0.6552

P(Land Area = 7.3262 | Class = Apartment) = 0.1141

P(Living Area = 1.831 | Class = Apartment) = 0.5090

P(Garage = 1.5 | Class = Apartment) = 0.5252

P(Rooms = 8 | Class = Apartment) = 0.2067

P(Bedrooms = 4 | Class = Apartment) = 0.3444

P(Age of Homes = 31 | Class = Apartment) = 0.0237

P(Local Price = 9.1416 | Class = Condo) = 0.0807

P(Bathroom = 1.5 | Class = Condo) = 0.6344

P(Land Area = 7.3262 | Class = Condo) = 0.1376

P(Living Area = 1.831 | Class = Condo) = 0.4129

P(Garage = 1.5 | Class = Condo) = 0.7333

P(Rooms = 8 | Class = Condo) = 0.1910

P(Bedrooms = 4 | Class = Condo) = 0.3501

P(Age of Homes = 31 | Class = Condo) = 0.0236

P(Local Price = 9.1416 l Class = House) =  $1.615 \times 10^{-8}$ 

P(Bathroom = 1.5 | Class = House) = 0.1613

P(Land Area = 7.3262 | Class = House) = 0.1691

P(Living Area = 1.831 | Class = House) = 0.2229

P(Garage = 1.5 | Class = House) = 0.4177

P(Rooms = 8 | Class = House) = 0.0155

P(Bedrooms = 4 | Class = House) = 0.1542

P(Age of Homes = 31 | Class = House) = 0.0303

P(Local Price = 12 | Class = Apartment) = 0.0480

P(Bathroom = 1.5 | Class = Apartment) = 0.6552

P(Land Area = 5 | Class = Apartment) = 0.1156

P(Living Area = 1.2 | Class = Apartment) = 0.5159

P(Garage = 2 | Class = Apartment) = 0.3034

P(Rooms = 6 | Class = Apartment) = 0.2421

P(Bedrooms = 3 | Class = Apartment) = 0.3712

P(Age of Homes = 30 | Class = Apartment) = 0.0228

P(Local Price = 12 | Class = Condo) = 0.0528

P(Bathroom = 1.5 | Class = Condo) = 0.6344

P(Land Area = 5 | Class = Condo) = 0.1446

P(Living Area = 1.2 | Class = Condo) = 0.4015

P(Garage = 2 | Class = Condo) = 0.3357

P(Rooms = 6 | Class = Condo) = 0.2175

P(Bedrooms = 3 | Class = Condo) = 0.4495

P(Age of Homes = 30 | Class = Condo) = 0.0225

 $P(Local Price = 12 | Class = House) = 6.854 \times 10^{-27}$ 

P(Bathroom = 1.5 | Class = House) = 0.1613

P(Land Area = 5 | Class = House) = 0.1364

P(Living Area = 1.2 | Class = House) = 1.2493

P(Garage = 2 | Class = House) = 0.2577

P(Rooms = 6 | Class = House) = 0.5658

P(Bedrooms = 3 | Class = House) = 0.6909

P(Age of Homes = 30 | Class = House) = 0.0296