

Id SalePrice
Min. :1461 Min. :135751
1st Qu.:1826 1st Qu.:168703
Median :2190 Median :179209
Mean :2190 Mean :179184
3rd Qu.:2554 3rd Qu.:186789
Max. :2919 Max. :281644

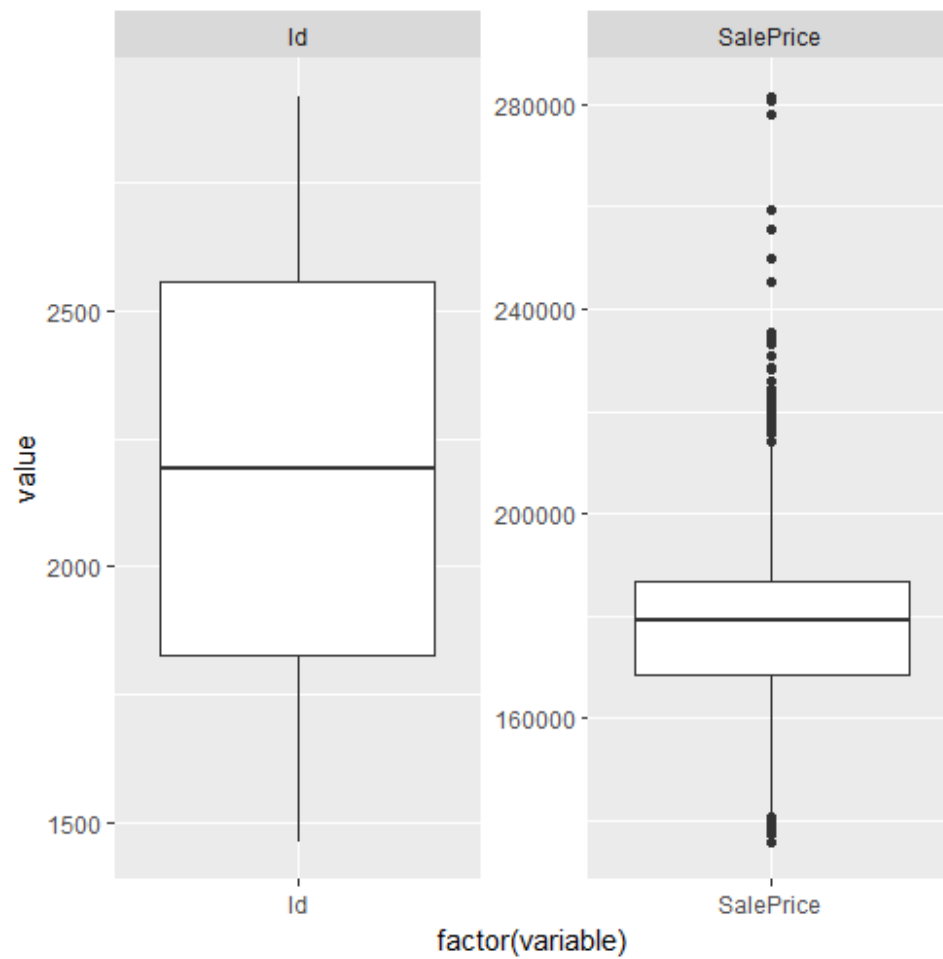
> summary(train)

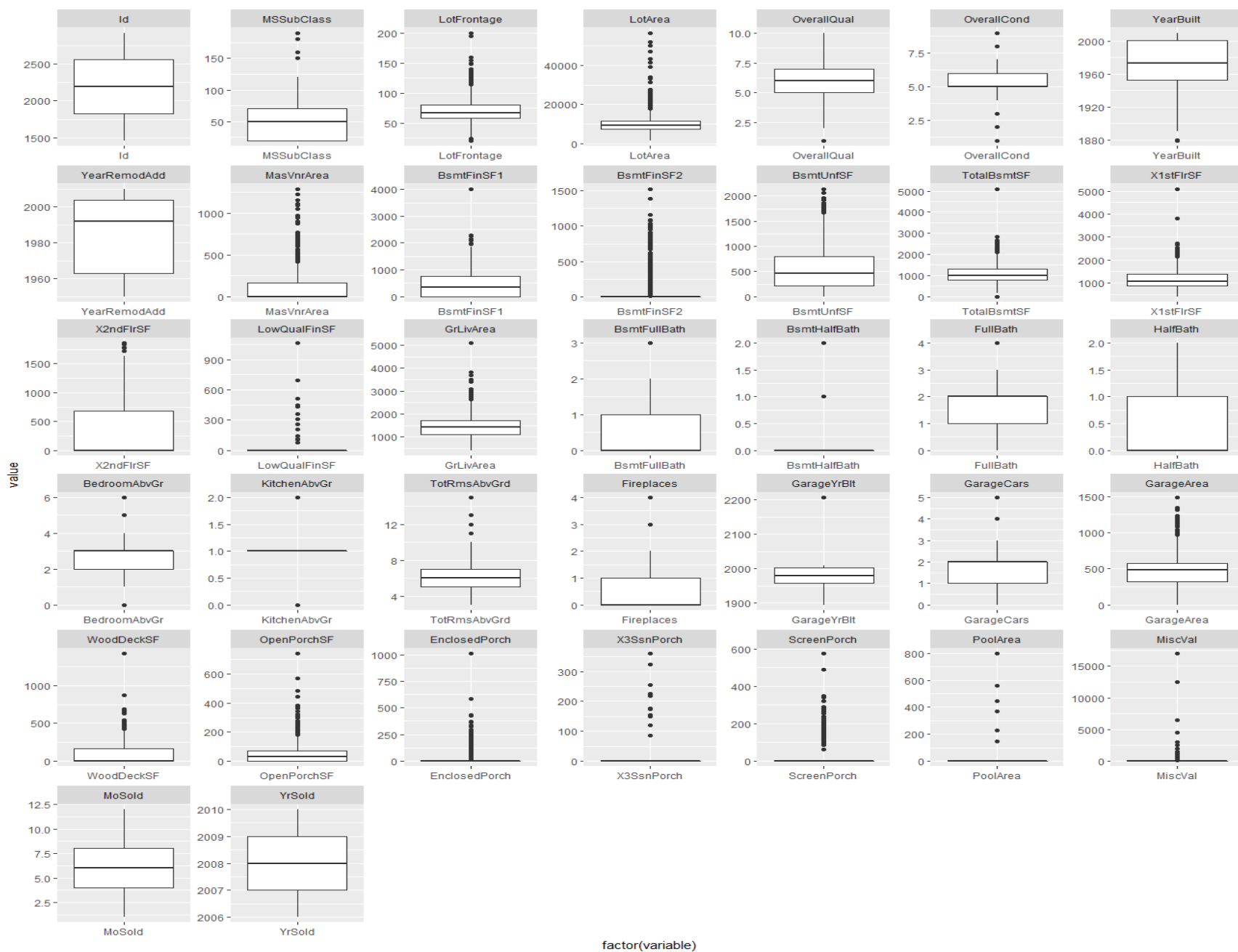
Id	MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condition1	
Min. : 1	Min. : 20	C (all): 10	Min. : 21	Min. : 1300	Grvl: 6	Grvl: 50	IR1:484	Bnk: 63	AllPub:1459	Corner : 263	Gtl:1382	Names :225	Norm :1260	
1st Qu.: 366	1st Qu.: 20	FV : 65	1st Qu.: 59	1st Qu.: 7554	Pave:1454	Pave: 41	IR2: 41	HLS: 50	NoSewa: 1	CulDSac: 94	Mod: 65	CollGr:150	Feedr : 81	
Median : 730	Median : 50	RH : 16	Median : 69	Median : 9478		NA's:1369	IR3: 10	Low: 36		FR2 : 47	Sev: 13	OldTown:113	Artery : 48	
Mean : 730	Mean : 57	RL :1151	Mean : 70	Mean : 10517			Reg:925	Lvl:1311		FR3 : 4		Edwards:100	RRAn : 26	
3rd Qu.:1095	3rd Qu.: 70	RM : 218	3rd Qu.: 80	3rd Qu.: 11602						Inside :1052		Somerst: 86	PosN : 19	
Max. :1460	Max. :190		Max. :313	Max. :215245								Gilbert: 79	RRAE : 11	
			NA's :259									(Other):707	(Other): 15	
Condition2	BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual	
Norm :1445	1Fam :1220	1Story :726	Min. : 1.0	Min. :1.0	Min. :1872	Min. :1950	Flat : 13	CompShg:1434	VinylSd:515	VinylSd:504	BrkCmn : 15	Min. : 0	Ex: 52	
Feedr : 6	2FmCon: 31	2Story :445	1st Qu.: 5.0	1st Qu.:5.0	1st Qu.:1954	1st Qu.:1967	Gable :1141	Tar&Grv: 11	HdBoard:222	Metalsd:214	BrkFace:445	1st Qu.: 0	Fa: 14	
Artery : 2	Duplex: 52	1.5Fin :154	Median : 6.0	Median :5.0	Median :1973	Median :1994	Gambrel: 11	WdShngl: 6	Metalsd:220	HdBoard:207	None :864	Median : 0	Gd:488	
PosN : 2	Twnhs : 43	SLvl : 65	Mean : 6.1	Mean :5.6	Mean :1971	Mean :1985	Hip : 286	WdShake: 5	Wd Sdng:206	Wd Sdng:197	Stone :128	Mean : 104	TA:906	
RRNn : 2	TwnhsE: 114	SFoyer : 37	3rd Qu.: 7.0	3rd Qu.:6.0	3rd Qu.:2000	3rd Qu.:2004	Mansard: 7	ClyTile: 1	Plywood:108	Plywood:142	NA's : 8	3rd Qu.: 166		
PosA : 1		1.5Unf : 14	Max. :10.0	Max. :9.0	Max. :2010	Max. :2010	Shed : 2	Membran: 1	CemntBd: 61	CmentBd: 60		Max. :1600		
(Other): 2		(Other): 19						(Other): 2	(Other):128	(Other):136		NA's :8		
ExterCond	Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfSF	TotalBsmtSF	Heating	HeatingQC	CentralAir	Electrical
Ex: 3	BrkTil:146	EX :121	Fa : 45	Av :221	ALQ :220	Min. : 0	ALQ : 19	Min. : 0	Min. : 0	Min. : 0	Floor: 1	Ex:741	N: 95	FuseA: 94
Fa: 28	CBlock:634	Fa : 35	Gd : 65	Gd :134	BLQ :148	1st Qu.: 0	BLQ : 33	1st Qu.: 0	1st Qu.: 223	1st Qu.: 796	GasA :1428	Fa: 49	Y:1365	FuseF: 27
Gd: 146	PConc :647	Gd :618	Po : 2	Mn :114	GLQ :418	Median : 384	GLQ : 14	Median : 0	Median : 478	Median : 992	GasW : 18	Gd:241		FuseP: 3
Po: 1	Slab : 24	TA :649	TA :1311	No :953	LwQ : 74	Mean : 444	LwQ : 46	Mean : 47	Mean : 567	Mean :1057	Grav : 7	Po: 1		Mix : 1
TA:1282	Stone : 6	NA's: 37	NA's: 37	NA's: 38	Rec :133	3rd Qu.: 712	Rec : 54	3rd Qu.: 0	3rd Qu.: 808	3rd Qu.:1298	Othw : 2	TA:428		SBrkr:1334
	Wood : 3				Unf :430	Max. :5644	Unf :1256	Max. :1474	Max. :2336	Max. :6110	Wall : 4			NA's : 1
					NA's: 37		NA's: 38							
X1stFlrSF	X2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional	Fireplaces	
Min. : 334	Min. : 0	Min. : 0	Min. : 334	Min. :0.00	Min. :0.00	Min. :0.00	Min. :0.00	Min. :0.0	Min. :0.00	Ex:100	Min. : 2.0	Maj1: 14	Min. :0.00	
1st Qu.: 882	1st Qu.: 0	1st Qu.: 0	1st Qu.:1130	1st Qu.:0.00	1st Qu.:0.00	1st Qu.:1.00	1st Qu.:0.00	1st Qu.:2.0	1st Qu.:1.00	Fa: 39	1st Qu.: 5.0	Maj2: 5	1st Qu.:0.00	
Median :1087	Median : 0	Median : 0	Median :1464	Median :0.00	Median :0.00	Median :2.00	Median :0.00	Median :3.0	Median :1.00	Gd:586	Median : 6.0	Min1: 31	Median :1.00	
Mean :1163	Mean : 347	Mean : 6	Mean :1515	Mean :0.43	Mean :0.06	Mean :1.57	Mean :0.38	Mean :2.9	Mean :1.05	TA:735	Mean : 6.5	Min2: 34	Mean :0.61	
3rd Qu.:1391	3rd Qu.: 728	3rd Qu.: 0	3rd Qu.:1777	3rd Qu.:1.00	3rd Qu.:0.00	3rd Qu.:2.00	3rd Qu.:1.00	3rd Qu.:3.0	3rd Qu.:1.00		3rd Qu.: 7.0	Mod : 15	3rd Qu.:1.00	
Max. :4692	Max. :2065	Max. :572	Max. :5642	Max. :3.00	Max. :2.00	Max. :3.00	Max. :2.00	Max. :8.0	Max. :3.00		Max. :14.0	Sev : 1	Max. :3.00	
												Typ :1360		
FireplaceQu	GarageType	GarageYrBlt	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch	X3SsnPorch	ScreenPorch	PoolArea
Ex : 24	2Types : 6	Min. :1900	Fin :352	Min. :0.0	Min. : 0	Ex : 3	Ex : 2	N: 90	Min. : 0	Min. : 0	Min. : 0	Min. : 0	Min. : 0	Min. : 0
Fa : 33	Attchd :870	1st Qu.:1961	Rfn :422	1st Qu.:1.0	1st Qu.: 334	Fa : 48	Fa : 35	P: 30	1st Qu.: 0	1st Qu.: 0	1st Qu.: 0	1st Qu.: 0	1st Qu.: 0	1st Qu.: 0
Gd :380	Basment: 19	Median :1980	Unf :605	Median :2.0	Median : 480	Gd : 14	Gd : 9	Y:1340	Median : 0	Median : 25	Median : 0	Median : 0	Median : 0	Median : 0
Po : 20	BuiltIn: 88	Mean :1979	NA's: 81	Mean :1.8	Mean : 473	Po : 3	Po : 7		Mean : 94	Mean : 47	Mean : 22	Mean : 3	Mean : 15	Mean : 3
TA :313	CarPort: 9	3rd Qu.:2002		3rd Qu.:2.0	3rd Qu.: 576	TA :1311	TA :1326		3rd Qu.:168	3rd Qu.: 68	3rd Qu.: 0	3rd Qu.: 0	3rd Qu.: 0	3rd Qu.: 0
NA's:690	Detchd :387	Max. :2010		Max. :4.0	Max. :1418	NA's: 81	NA's: 81		Max. :857	Max. :547	Max. :552	Max. :508	Max. :480	Max. :738
	NA's : 81	NA's :81												
PoolQC	Fence	MiscFeature	MiscVal	Mosold	Yrsold	SaleType	SaleCondition	SalePrice						
Ex : 2	GdPrv: 59	Gar2: 2	Min. : 0	Min. : 1.0	Min. :2006	WD :1267	Abnorml: 101	Min. : 34900						
Fa : 2	Gdwo : 54	Othr: 2	1st Qu.: 0	1st Qu.: 5.0	1st Qu.:2007	New : 122	AdjLand: 4	1st Qu.:129975						
Gd : 3	MnPrv: 157	Shed: 49	Median : 0	Median : 6.0	Median :2008	COD : 43	Alloca : 12	Median :163000						
NA's:1453	MnWw : 11	TenC: 1	Mean : 43	Mean : 6.3	Mean :2008	ConLD : 9	Family : 20	Mean :180921						
	NA's :1179	NA's:1406	3rd Qu.: 0	3rd Qu.: 8.0	3rd Qu.:2009	ConLI : 5	Normal :1198	3rd Qu.:214000						
			Max. :15500	Max. :12.0	Max. :2010	ConLw : 5	Partial: 125	Max. :755000						
						(Other): 9								

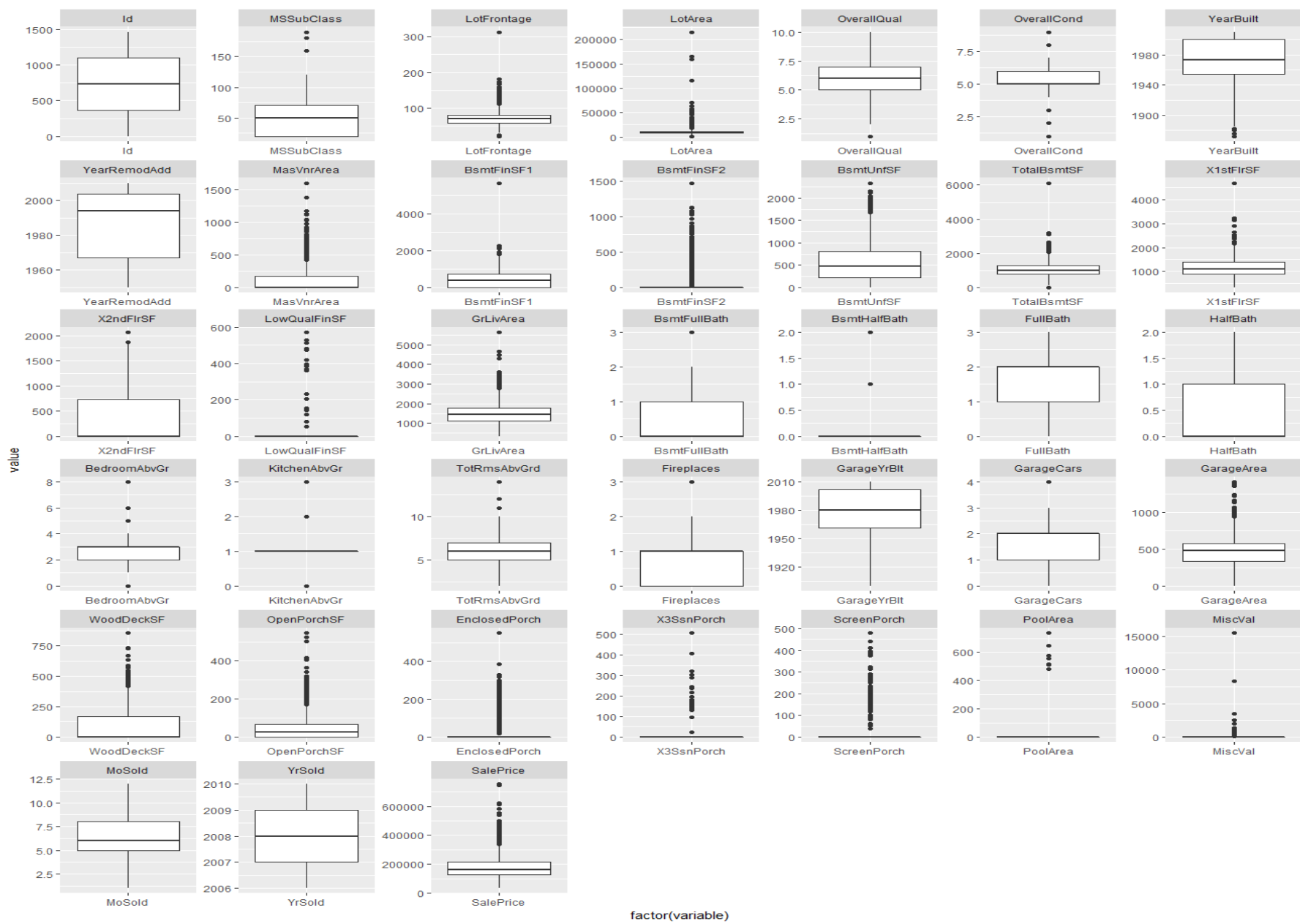
> summary(test)

Id		MSSubClass	MSZoning	LotFrontage	LotArea	Street	Alley	LotShape	LandContour	Utilities	LotConfig	LandSlope	Neighborhood	Condition1			
Min.	:1461	Min.	: 20	C (all): 15	Min.	: 21	Min.	: 1470	Grvl: 6	Grvl: 70	IR1:484	Bnk: 54	AllPub:1457	Corner : 248	GTl:1396	Names :218	Norm :1251
1st Qu.	:1826	1st Qu.	: 20	FV : 74	1st Qu.	: 58	1st Qu.	: 7391	Pave:1453	Pave: 37	IR2: 35	HLS: 70	NA's : 2	CuIDSac: 82	Mod: 60	OldTown:126	Feedr : 83
Median	:2190	Median	: 50	RH : 10	Median	: 67	Median	: 9399		NA's:1352	IR3: 6	Low: 24		FR2 : 38	Sev: 3	CollgCr:117	Artery : 44
Mean	:2190	Mean	: 57	RL :1114	Mean	: 69	Mean	: 9819			Reg:934	Lv1:1311		FR3 : 10		Somerst: 96	RRAN : 24
3rd Qu.	:2554	3rd Qu.	: 70	RM : 242	3rd Qu.	: 80	3rd Qu.	:11518						Inside :1081		Edwards: 94	PosN : 20
Max.	:2919	Max.	:190	NA's : 4	Max.	:200	Max.	:56600								NridgHt: 89	RAe : 17
				NA's :227												(Other):719	(Other): 20
Condition2		BldgType	HouseStyle	OverallQual	OverallCond	YearBuilt	YearRemodAdd	RoofStyle	RoofMatl	Exterior1st	Exterior2nd	MasVnrType	MasVnrArea	ExterQual			
Artery:	3	1Fam :1205	1.5Fin:160	Min. : 1.0	Min. :1.0	Min. :1879	Min. :1950	Flat : 7	CompShg:1442	VinylSd:510	VinylSd:510	BrkCmn : 10	Min. : 0	Ex: 55			
Feedr :	7	2fmCon: 31	1.5Unf: 5	1st Qu.: 5.0	1st Qu.:5.0	1st Qu.:1953	1st Qu.:1963	Gable :1169	Tar&Grv: 12	Metalsd:230	Metalsd:233	BrkFace:434	1st Qu.: 0	Fa: 21			
Norm :1444		Duplex: 57	1Story:745	Median : 6.0	Median :5.0	Median :1973	Median :1992	Gambrel: 11	WdShake: 4	HdBoard:220	HdBoard:199	None :878	Median : 0	Gd:491			
PosA : 3		Twnhs : 53	2.5Unf: 13	Mean : 6.1	Mean :5.6	Mean :1971	Mean :1984	Hip : 265	WdShngl: 1	Wd Sdng:205	Wd Sdng:194	Stone :121	Mean : 101	TA:892			
PosN : 2		TwnhsE: 113	2Story:427	3rd Qu.: 7.0	3rd Qu.:6.0	3rd Qu.:2001	3rd Qu.:2004	Mansard: 4		Plywood:113	Plywood:128	NA's : 16	3rd Qu.: 164				
			SFoyer: 46	Max. :10.0	Max. :9.0	Max. :2010	Max. :2010	Shed : 3		(Other):180	(Other):194		Max. :1290				
			SLvl : 63							NA's : 1	NA's : 1		NA's :15				
ExterCond		Foundation	BsmtQual	BsmtCond	BsmtExposure	BsmtFinType1	BsmtFinSF1	BsmtFinType2	BsmtFinSF2	BsmtUnfsf	TotalBsmtSF	Heating	HeatingQC	CentralAir	Electrical		
Ex: 9		BrkTil:165	Ex :137	Fa : 59	Av :197	ALQ :209	Min. : 0	ALQ : 33	Min. : 0	Min. : 0	Min. : 0	GasA:1446	Ex:752	N: 101	FuseA: 94		
Fa: 39		CBlock:601	Fa : 53	Gd : 57	Gd :142	BLQ :121	1st Qu.: 0	BLQ : 35	1st Qu.: 0	1st Qu.: 219	1st Qu.: 784	GasW: 9	Fa: 43	Y:1358	FuseF: 23		
Gd: 153		PConc :661	Gd :591	Po : 3	Mn :125	GLQ :431	Median : 350	GLQ : 20	Median : 0	Median : 460	Median : 988	Grav: 2	Gd:233		FuseP: 5		
Po: 2		Slab : 25	TA :634	TA :1295	No :951	LWQ : 80	Mean : 439	LWQ : 41	Mean : 53	Mean : 554	Mean :1046	Wall: 2	Po: 2		SBkrk:1337		
TA:1256		Stone : 5	NA's: 44	NA's: 45	NA's: 44	Rec :155	3rd Qu.: 754	Rec : 51	3rd Qu.: 0	3rd Qu.: 798	3rd Qu.:1305		TA:429				
		Wood : 2				Unf :421	Max. :4010	Unf :1237	Max. :1526	Max. :2140	Max. :5095						
						NA's: 42	NA's :1	NA's: 42	NA's :1	NA's :1	NA's :1						
X1stFlrSF		X2ndFlrSF	LowQualFinSF	GrLivArea	BsmtFullBath	BsmtHalfBath	FullBath	HalfBath	BedroomAbvGr	KitchenAbvGr	KitchenQual	TotRmsAbvGrd	Functional				
Min. : 407		Min. : 0	Min. : 0	Min. : 407	Min. :0.00	Min. :0.00	Min. :0.0	Min. :0.00	Min. :0.0	Min. :0.00	Ex :105	Min. : 3.0	Typ :1357				
1st Qu.: 874		1st Qu.: 0	1st Qu.: 0	1st Qu.:1118	1st Qu.:0.00	1st Qu.:0.00	1st Qu.:1.0	1st Qu.:0.00	1st Qu.:2.0	1st Qu.:1.00	Fa : 31	1st Qu.: 5.0	Min2 : 36				
Median :1079		Median : 0	Median : 0	Median :1432	Median :0.00	Median :0.00	Median :2.0	Median :0.00	Median :3.0	Median :1.00	Gd :565	Median : 6.0	Min1 : 34				
Mean :1157		Mean : 326	Mean : 4	Mean :1486	Mean :0.43	Mean :0.07	Mean :1.6	Mean :0.38	Mean :2.9	Mean :1.04	TA :757	Mean : 6.4	Mod : 20				
3rd Qu.:1382		3rd Qu.: 676	3rd Qu.: 0	3rd Qu.:1721	3rd Qu.:1.00	3rd Qu.:0.00	3rd Qu.:2.0	3rd Qu.:1.00	3rd Qu.:3.0	3rd Qu.:1.00	NA's: 1	3rd Qu.: 7.0	Maj1 : 5				
Max. :5095		Max. :1862	Max. :1064	Max. :5095	Max. :3.00	Max. :2.00	Max. :4.0	Max. :2.00	Max. :6.0	Max. :2.00		Max. :15.0	(Other): 5				
					NA's :2	NA's :2							NA's : 2				
Fireplaces		FireplaceQu	GarageType	GarageYrBlt	GarageFinish	GarageCars	GarageArea	GarageQual	GarageCond	PavedDrive	WoodDeckSF	OpenPorchSF	EnclosedPorch	X3SsnPorch			
Min. :0.0		Ex : 19	2Types :17	Min. :1895	Fin :367	Min. :0.0	Min. : 0	Fa : 76	Ex : 1	N: 126	Min. : 0	Min. : 0	Min. : 0	Min. : 0			
1st Qu.:0.0		Fa : 41	Attchd :853	1st Qu.:1959	Rfn :389	1st Qu.:1.0	1st Qu.: 318	Gd : 10	Fa : 39	P: 32	1st Qu.: 0	1st Qu.: 0	1st Qu.: 0	1st Qu.: 0			
Median :0.0		Gd :364	Basment: 17	Median :1979	Unf :625	Median :2.0	Median : 480	Po : 2	Gd : 6	Y:1301	Median : 0	Median : 28	Median : 0	Median : 0			
Mean :0.6		Po : 26	BuiltIn: 98	Mean :1978	NA's: 78	Mean :1.8	Mean : 473	TA :1293	Po : 7		Mean : 93	Mean : 48	Mean : 24	Mean : 2			
3rd Qu.:1.0		TA :279	CarPort: 6	3rd Qu.:2002		3rd Qu.:2.0	3rd Qu.: 576	NA's: 78	TA :1328		3rd Qu.: 168	3rd Qu.: 72	3rd Qu.: 0	3rd Qu.: 0			
Max. :4.0		NA's:730	Detchd :392	Max. :2207		Max. :5.0	Max. :1488		NA's: 78		Max. :1424	Max. :742	Max. :1012	Max. :360			
			NA's : 76	NA's :78		NA's :1	NA's :1										
ScreenPorch		PoolArea	PoolQC	Fence	MiscFeature	MiscVal	MoSold	YrSold	SaleType	SaleCondition							
Min. : 0		Min. : 0	Ex : 2	GdPrv: 59	Gar2: 3	Min. : 0	Min. : 1.0	Min. :2006	WD :1258	Abnorml: 89							
1st Qu.: 0		1st Qu.: 0	Gd : 1	Gdwo : 58	Othr: 2	1st Qu.: 0	1st Qu.: 4.0	1st Qu.:2007	New : 117	AdjLand: 8							
Median : 0		Median : 0	NA's:1456	MnPrv: 172	Shed: 46	Median : 0	Median : 6.0	Median :2008	COD : 44	Alloca : 12							
Mean : 17		Mean : 2		MnWw : 1	NA's:1408	Mean : 58	Mean : 6.1	Mean :2008	ConLD : 17	Family : 26							
3rd Qu.: 0		3rd Qu.: 0		NA's :1169		3rd Qu.: 0	3rd Qu.: 8.0	3rd Qu.:2009	CWD : 8	Normal :1204							
Max. :576		Max. :800				Max. :17000	Max. :12.0	Max. :2010	(Other): 14	Partial: 120							
									NA's : 1								

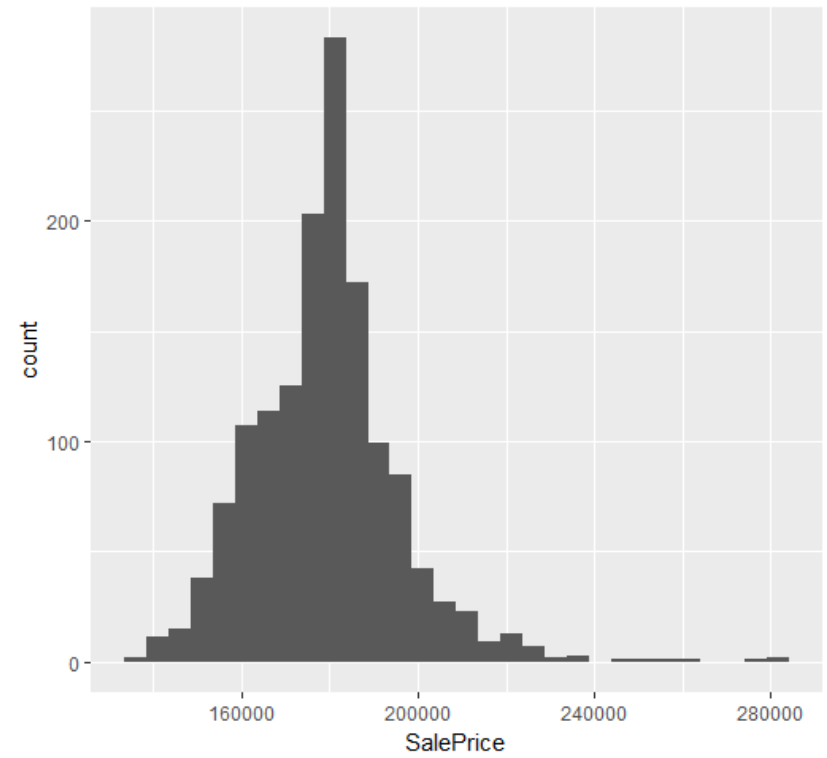
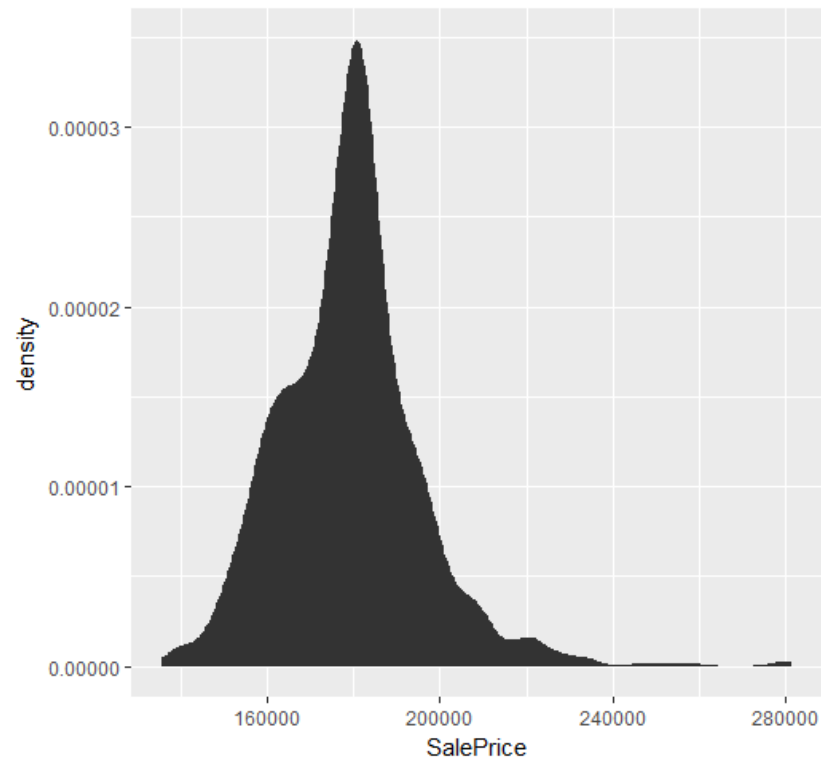
Boxplot

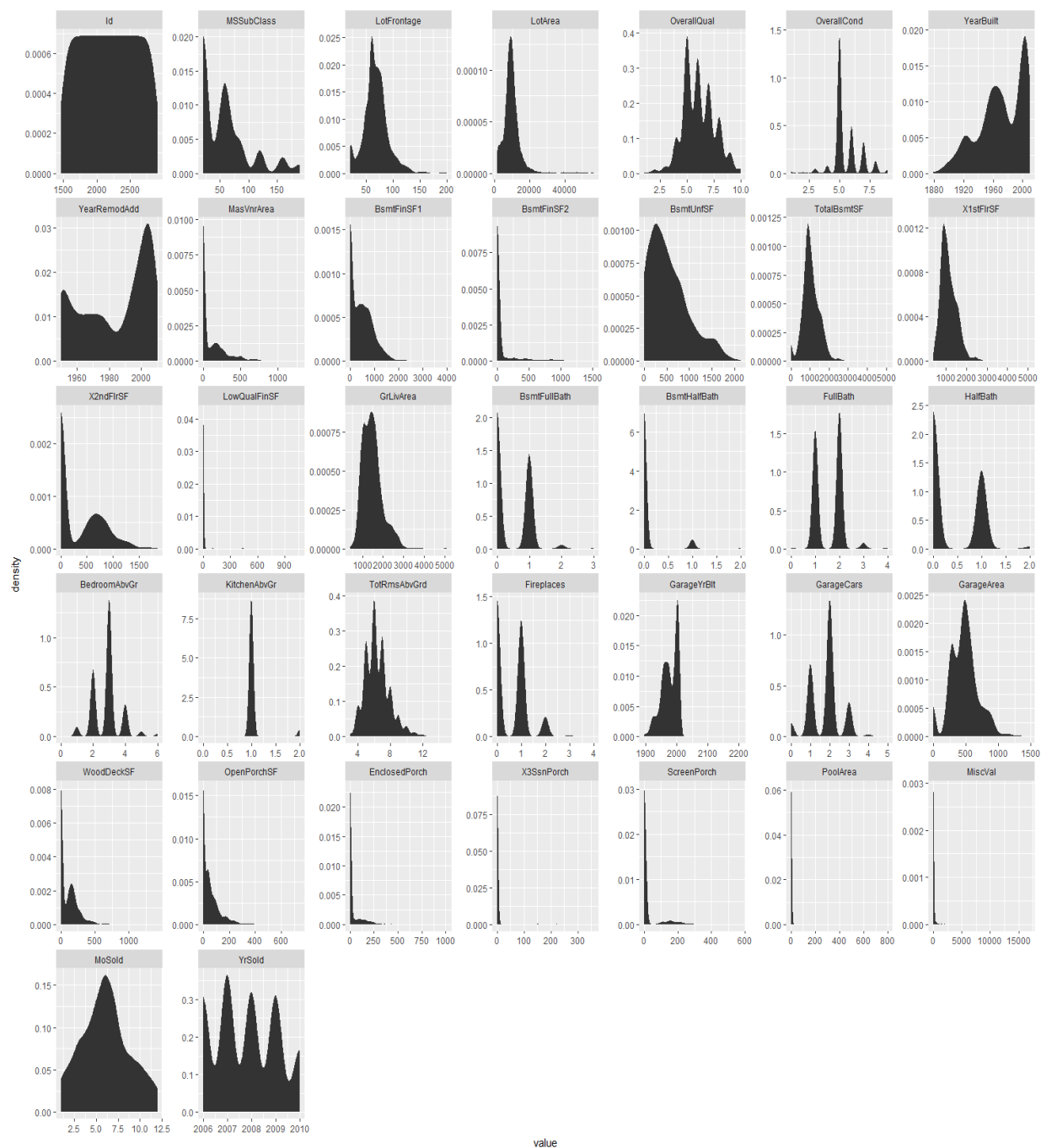


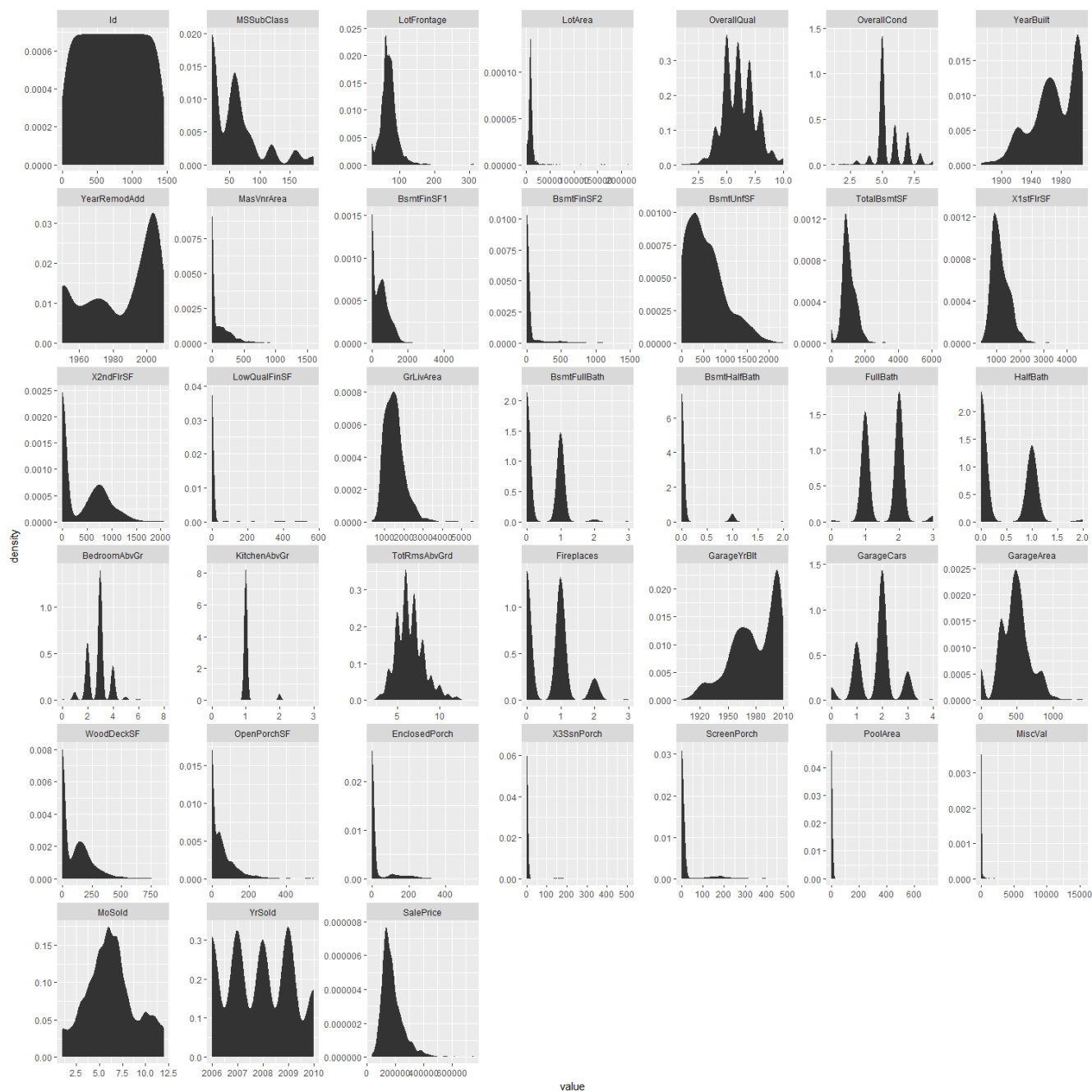




Histogram and density plot







Correlation plot

