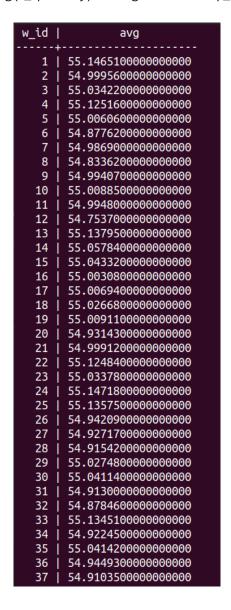
- 一、统计函数的使用:
- 1、在表 item 中计算所有商品的数量,价格平均值,价格最大值,价格最小值,价格方差。

select count(i_id), avg(i_price), max(i_price), min(i_price), var_pop(i_price) from bmsql_item;

2、在表 stock 中统计每个仓库保存的商品数量平均值,输出列为 w_id, avg。 select s_w_id as w_id, avg(s_quantity) as avg from bmsql_stock group by s_w_id;



37 | 54.91035000000000000 38 | 55.13665000000000000 39 | 55.0301500000000000 40 | 54.9296800000000000 (40 行记录)

二、正则表达式的使用:

1、找出所有以'NB'为名字开头或者以'VT'为结尾的商品的所有信息; (用一个正则表达式解决,不要用 or)

select * from bmsql_item where i_name like 'NB_%' or i_name like '_%VT';

i_id	i_name	i_price	i_data	i_im_id
160	+ NB6eH1uGzmgc2s	29.30	+ BjSbiX8kblxajH0b9litwz7YTgHIv4r55cYDTt9mwiu	1821
2093	NBLeEtCQMYoWJyd4jXYB	70.53	oH669ywZ3CgyhSfaIlyD8Xh05rfMK89j6aVlQl4uJGSrJTvZpp	4878
7013	NBrYVs000gMrMH5TDlJHma	25.06	QR4wnJmDgb12GpWMnb0zhq57cWoV5pbE1WVwv	9920
7401 12695	NBuu59RJjg8uMJFto1 NBW7idbsNsZID1	56.98 82.00	r7wuH8uNj4jpWIZ3whfL3pIIr7I tir3lnOcPUsa9DiwWPOoSZsrOLfLIqNAn4WYHqEOMNrnzGEinI	682 1477
12927	NBwGVc1r74kny0Fmj9zf6	7.33	v0HPJ7uBQmPQyYS2HiGj4wk60cGxyAGVBDvu2E2S	8453
13759	NBbBDRrD9uj2IlnXW	68.74	nC4jRz8XfPowJprpJ5erSa63wedWdlnCn5KWtH5UIBvs1TzkJw	4212
14820	YolKqETzUbp6I1KCYVT	1.61	MTSefnavj0DvYP7YboQyy3wtpUOtk7v6F0i8WjJj8GTZx2R9	3842
15020	CZC1Ik6Z8l9VWiVT	92.72	CfA8cCDxADSP1Ciap1mQkLcArEihsQjsaqm2RPOyxTl4	5347
16821 17768	NBUbrAjL8MzGFJSuV	20.91	EBwgZ4Z7ixUq3zFRQsdIqtlNxgUQOUb SKZ7dsXzWdELa8MGkwWW5cxsbVv6dh82o	4400 1428
18044	qXsw3bGvBsCQnG34vrujuVT rII4LHbN48xKBrVT	69.75 41.50	SKZ7USXZWUELAGMUKWWWSCXSDVVOUH0ZO kFgXRU3yymM7lr6hPL22DaYxd5AeOHWn2CBjhExdBoiSFm	4538
20955	NB8SRWPLR9wevoZ8lRnb	51.05	yRLuMOPfSbhiqnOVrjuGCFORIGINALR2hNOY7bXqeGOi	6400
2770	e68NISbyOpXvXB6GdhhL7VT	91.38	MHZ90Drtmh3tAY9T8kYLGmIKApuYnTVZ8Whjpjwt0bFRAtm	6122
24070	KO9SW8UJBhIjMGLOqzjVT	94.03	svppruv903slFvWyOwPx66SZBU6YolBq04Xlbc31NNISdi	6799
24523	f2f6PJeEogY1c3AOXWVT	52.24	p8LazqN2bvi4X9TCKFGVwgbKxxHiSA4CbGmmjTl000HW5pr	7574
24861 24999	NB7reMYICr0HLRolci10ZxFT OajqdrnmLkMhPDIjSBESLFVT	48.83 40.61	O0ctwWLTpTAydDv0T352UYltrCQI4jnWy	4116 1597
29448	UGtPwxfT37p53wdcVT	77.94	TMLij5PCdckluKLZORIGINALp2In9	8302
9579	WyPZsLRVNBKrlhGq2DU7VT	20.17	vYERanFDcDBDAjGy2UwKhwATjVVgqd2308kIgwpsn9Sm02	3928
0228	kd3NbQQswMkOgGVT	53.21	H512dlydtxYRJJfDgEKQTy5XlbmM45wW	9768
3305	NBpmGSBR6BcpV2cD5lP	44.15	jChiLs5nDrNT7DlFmiXcp1wHTAZ	6268
33553 33710	NB1GMRYvh33ejWbUcvJ52au NBYUu8o4Dvgzvjc	72.00 48.36	MaCWjQ0YIp8vF3J0YPo6hYNls5vTwdcU7iGiK dqphKcRNsllW5C6BED6gYAaf0XST9tieclBevKLM6tNAE	2224 1648
35146	NBgiMRK8qJLPeDSk4fkhI	97.98	Jpl4bDJR1HGjwKVOPsUagip0W1vwDK4OaHHupKF0AyQL	7702
39547	HOtKDsVSopXVCaQsjMh927VT	96.29	wHHsvFbt3rDWUpq6BS7yx9AyUypW0LuC96VQVwzHLDwK8Y	2371
10264	L3HfMAU8NVbnU1wteiVT	94.07	v54p7QXZtUAHz5K8Q4Y4nbsAsGH2hyoG94lqGnawPq	4132
1245	CNCVH8uSFN93s89NvKKlVT	31.30	h85JaXL7aS5MBYUqMOzV2VslQJCQd9FjpKbRZfDrMNQuj	1020
1621 2028	q15pmfcE1SUGVT hyStdRFXb32ptwWz7nm3BAVT	90.79 41.47	zG6LmkCcApDr0R4jeCiRytqeu4	6849 5398
14593	NB6srxukNAq010Jq	1.51	FRIOEGSSTITOOGOUWICEMAZSTICZERQTIQKTIQUOXOTWXLOTIKO KmCfVzGnZkCGmBbSMIbGAFtwKseCQlD	4476
16084	azSGgMZhlmuLoDYrVT	46.36	VqP66Sceckn01i3z9eSAjoJfDA	553
9168	CnprbIoQ3VGflMC0syCPhVT	99.12	WeKTaAJPIDfEY2Fr50RIGINALsERWHzyko2kQNYcjT5	8846
			L F1D2f1023C0acNdO4bDFDaV7Vapay3cTvCVvaiabC	
19433	NBW9r6vs1SHdXq0EpRpfdEMi	33.16	FlP3fU82JS8qsNdO4kRERqV7KepoyJcTuGXxnjqbS	1948
51562	RIfBog5YFDGdSWqAjWJSVT	72.75	GeVqL4PpTuXcn9ndn8V0SzZQvlvz	8852
51562 51742				
51562 51742 52241	RIfBog5YFDGdSWqAjWJSVT FFPe6qRlXS70vLVT	72.75 49.07 93.56	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG	8852 6629
51562 51742 52241 55031 56794	RIfBogSYFDGdSWqAjWJSVT FFPe6qRlXS70vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT	72.75 49.07 93.56 35.32 64.68	GeVqL4PpTuXcn9ndn8V05zZQvlvz yFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm5B9Zt7nxP1Z0 wIv74xMzvje0bZvnU43Z9YFrWiEXY LKqNA5yY1tN3sbL5kAcTUFcjQfrMP	8852 6629 8022 7764 336
51562 51742 52241 55031 56794 58003	RIFBogSYFDGdSWqAjWJSVT FFPe6qRlXS78vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB0R9vX7YCkH961j7eGszl	72.75 49.07 93.56 35.32 64.68 20.89	GeVqL4PpTuXcn9ndn8V0SzZQvlvz	8852 6629 8022 7764 336 193
51562 51742 52241 55031 56794 58003 60706	RIFBogSYFDGdSWqAjWJSVT FFPe6qRlXS78vLVT uyiDpbxeP0aXVT LJMegMtyirgOcp8VT Wyyq71G3W3pKbVT NB0R9VX7VCkH961j7eGszl NBYLVamk6stFAOUh0klV9MMm	72.75 49.07 93.56 35.32 64.68 20.89 93.72	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm5B9Zt7nxP1Z0 wIv74xMzvjeDbZVnU43Z9YFFW1EXY LKqNA5yY1iN3sbL5kAcTUfcjQfrMP U3QPXhDORRIGINALFsBWLh3LVy1G67FNw4UJ c32MSKLaRtzQ1e9G2kB47SjBRNXSjQOnQMFN	8852 6629 8022 7764 336 193 2378
51562 51742 52241 55031 56794 58003 50706 60826	RIFBogSYFDGdSwqAjWJSVT FFPe6qRlXS70vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB9R9vX7VCkH961j7eGszl NBYLVamk6stFAOUh0klV9MMm FcEztVl3cwpsn3fWFLVT	72.75 49.07 93.56 35.32 64.68 20.89 93.72 32.54	GeVqL4PpTuXcn9ndn8V05zZQvLvz yFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG yEVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG yByPqpEyFVSHAbnkooG5qU3XhgAUR5wm5B9Zt7nxP1Z0 WIV74xMzvjeDbZVnU43Z9YFrWiEXY LKqNA5yY1iN3sbL5kAcTUFcjQfrMP U3QPxhDORORIGINALFSBWL1h3LVyiG67FNw4UJ c32MSKLaRtzQ1e9G2kB475jBRNx5jQOnQMFN QRPkGY77tXpxKSZKrVgnzXBSpwOX	8852 6629 8022 7764 336 193 2378 1179
51562 51742 52241 55031 56794 58003 50706 50826 54336	RIFBogSYFDGdSWqAjWJSVT FFPe6qRlXS78vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB0R9vX7YCkH961j7eGszl NBYLVamk6stFAOUh0klV9MMm FCEZtVl3cwpsn3fWFLVT OIAKr4ERtL8XNae0CYvaCPVT	72.75 49.07 93.56 35.32 64.68 20.89 93.72 32.54 19.91	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTy2cIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm5B9Zt7nxP1Z0 wIv74xMzvjeDbZVnU43Z9YFrWiEXY LKqNASyY1iN3sbL5kAcTUfcj0frMP U3gPxhD0R0RIGINALFsBWlh3LVyiG67FNw4UJ c32MSKLaRtzQle9G2kB475jBRNx5jQonQMFN QRPkGY77tXpxKSZXrVgnzXBSpw0X HVPVCAjWSofjuvgpvr2Gf0VLq2WRZThroFnMGEsshn0a	8852 6629 8022 7764 336 193 2378 1179 4201
51562 51742 52241 55031 56794 58003 50706 50826 54336 544387 55660	RIFBogSYFDGdSwqAjWJSVT FFPe6qRlXS78vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB0R9VX7VCkH961j7eGszl NBYLVamk6stFAOUh0klV9MMm FCEZtVl3cwpsn3fWFLVT oIAKr4ERtL8XNaeOCYVaCPVT NBIdKCRXPU4HtNTSeUT g5c5Gd8ewA1r1VT	72.75 49.07 93.56 35.32 64.68 20.89 93.72 32.54 19.91 50.90 93.16	GeVqL4PpTuXcn9ndn8V05zZQvLvz JFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG Jg_9QrepLFW5HAbnkooG5qU3XhgAUR5wm5B9Zt7nxP1Z0 WIV74xMzvjeDbZVnU43Z9YFrWiEXY LKqNA5yY1iN3sbL5kAcTUfcjQfrMP U3QPxhDORORIGINALFsBWLh3LVyiG67FNw4UJ c32MSKLaRtzQ1e9G2k8475jBRNx5jQOnQMFN QRPkGY77tXpxK5ZXrVgnzXB5pw0X HvPVCAjMSofjuvgypvr2Gf0Vlq2MRZThroFnMGEsshn0a qgUv1MbBjrT8dzg1XkrSi8am7xvegPo4abZUSZ4jMVWeA0424 NTNL2LZZDCXG1Kkk11xHT9Qtvmvuocu2CMGucbX8sf8b7S0fNs	8852 6629 8022 7764 336 193 2378 1179 4201 521 6464
51562 51742 52241 55031 56794 58003 50706 50826 54336 644987 65660 66490	RIFBogSYFDGdSwqAjWJSVT FFPe6qRlXS78vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB0R9vX7YCkH961j7eGszl NBYLVamk6stFAOUh0klV9MMm FCEZtVl3cwpsn3fWFLVT OIAKr4ERtL8XNae0CYvaCPVT NBI1dKcRXPU4HtN7SeUT gSc5G68ew41rLVT ACEgYRjPrgiLaVT	72.75 49.07 93.56 35.32 64.68 20.89 93.72 32.54 19.91 50.90 93.16 51.49	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm5B9Zt7nxP1Z0 wIv74xMzvjeDbZvnU43Z9YFrWiEXY LKqNA5yY1iN3sbL5kAcTUfcjQfrMP U3gPxhDORORIGINALF5BWLh3LVy1G67FNw4UJ c32M5KLaRtzQ1e9GzkB47sjBRNx5jQOnQMFN QRPkGY77tXpXK5ZXrVgnzXB5pw0X HvPVCAjWSofjuvgypvr2Gf0Vlq2WRZThroFnMGEsshn0a qgUv1MbBjrT8dzg1Xkr5i8am7xvegPo4abZUsZ4jMVWeA0424 NTNLTZIZDCXG1KkATJXHF9Qtvmvuocu2CWGucbX8sf8b7S0fNs YwbB6pVJq3UdgLJEXfMQTbuKKL	8852 6629 8022 7764 336 193 2378 1179 4201 521 6464 9036
1562 1742 2241 55031 56794 58003 50706 50826 54336 54987 55660 56490 58027	RIFBogSYFDGdSWqAjWJSVT FFPe6qRlXS770vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB0R9vX7YCkH961j7eGszl NBYLVamk6stFAOUh0klVyMMm FCEztVl3cwpsn3fWFLVT oIAKr4ERtL8XNae0CYvaCPVT NBIidKcRxPU4HtN7SeUT g5c5Gd8ewA1r1VT ACEGYRJPrgiLaVT NBF1YSZ4GpRkHyfr	72.75 49.07 93.56 35.32 64.68 20.89 93.72 32.54 19.91 50.90 93.16 51.49 57.58	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTyZcIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm589Zt7nxP1Z0 wIv74xMzvjeDbZVnU43Z9YFrWiEXY LKqNA5yY1iN3sbL5kAcTUfcj0frMP U3gPxhD0R0RIGINALFsBwlh3LVyiG67FNw4UJ c32MSKLaRtzQ1e9G2kB475jBRNx5jQ0nQMFN QRPkGY77tXpxKSZXrVgnzXBSpw0X HvPVCAjWSofjuvgypvr2Gf0V1q2WRZThroFnMGEsshn0a qgUv1MbBjrT8dzg1XkrSi8am7xvegPo4abZUsZ4jMVWeA0424 NTNLZ1Z2DCXG1KkkI1xWT9Qtvmvuocu2CWGucbX8sf8b7S0fNs YwbB6p07q3Uddg12EXfMQTbuKKL Y0XLMiTo9axMM8JbyEPVR6JrRBl8w5AjWJRS9gW	8852 6629 8022 7764 336 193 2378 1179 4201 521 6464 9036 3540
1562 1742 2241 55031 56794 58003 50706 50826 54336 54987 55660 56490 58027 58351	RIFBogSYFDGdSwqAjWJSVT FFPe6qRIXS770vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB0R9vX7YCkH961j7eGszl NBYLVamk6stFAOUh0kLV9MMm FcEztVl3cwpsn3fWFLV1 oIAKr4ERt18XNaeOCYvaCPVT NBIidKcRxPU4HtN75eUT g5c5Gd8ewA1r1VT ACEgYRjPrgiLaVT NB1YSZ4GpRkHyfr NBfMODJ6qqSjlKJQ4Y59Caj	72.75 49.07 93.56 35.32 64.68 20.89 93.72 32.54 19.91 50.90 93.16 51.49 57.58 87.31	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTyZcIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm589Zt7nxP1Z0 wIv74xMzvjeDbZVnU43Z9YFrWiEXY LKqNASyY1iN3sbL5kAcTUFcjQfrMP U3gPxhD0R0RIGINALF5BWlh3LVyiG67FNw4UJ c32MSKLaRtzQ1e9G2kB475jBRNx5jQ0nQMFN QRPkGY77tXpXx5ZXrVgnzXBSpw0X HyPVCAjWSofjuvgypvrZGF0V1q2WRZThroFnMGEsshn0a qgUv1MbBjrT8dzgJXkrSi8am7xvegPo4abZUsZ4jMVWeA0424 NTNLZLZ2DCKGIKkLT1xHT9Qtvmvuocu2CWGucbX8sf8b7S0fNs YwbB6pVJq3UdkJEXFMQTbUKKL YoXLMiTo9axMM8JbyEPVR6JrB8l8w5AjWJRS9gW d55KdMmQN6GrqUXZ2YAQl5rr0jKuPNwLWmadghTZeMGO	8852 6629 8022 7764 336 193 2378 1179 4201 521 6464 9036 3540 2338
1562 1742 2241 55031 56794 58003 50706 50826 54336 54987 55660 56490 58027 58351 58666	RIFBogSYFDGdSWqAjWJSVT FFPe6qRlXS770vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB0R9vX7YCkH961j7eGszl NBYLVamk6stFAOUh0klVyMMm FCEztVl3cwpsn3fWFLVT oIAKr4ERtL8XNae0CYvaCPVT NBIidKcRxPU4HtN7SeUT g5c5Gd8ewA1r1VT ACEGYRJPrgiLaVT NBF1YSZ4GpRkHyfr	72.75 49.07 93.56 35.32 64.68 20.89 93.72 32.54 19.91 50.90 93.16 51.49 57.58	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTyZcIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm589Zt7nxP1Z0 wIv74xMzvjeDbZVnU43Z9YFrWiEXY LKqNA5yY1iN3sbL5kAcTUfcj0frMP U3gPxhD0R0RIGINALFsBwlh3LVyiG67FNw4UJ c32MSKLaRtzQ1e9G2kB475jBRNx5jQ0nQMFN QRPkGY77tXpxKSZXrVgnzXBSpw0X HvPVCAjWSofjuvgypvr2Gf0V1q2WRZThroFnMGEsshn0a qgUv1MbBjrT8dzg1XkrSi8am7xvegPo4abZUsZ4jMVWeA0424 NTNLZ1Z2DCXG1KkkI1xWT9Qtvmvuocu2CWGucbX8sf8b7S0fNs YwbB6p07q3Uddg12EXfMQTbuKKL Y0XLMiTo9axMM8JbyEPVR6JrRBl8w5AjWJRS9gW	8852 6629 8022 7764 336 193 2378 1179 4201 521 6464 9036 3540
1562 1742 2241 55031 56794 58003 50706 50826 54336 544987 55660 68027 68027 68351 68666 71846 73502	RIFBogSYFDGdSwqAjWJSVT FFPe6qRIXS770vLVT UyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB0R9vX7YCkH961j7eGszl NBYLVamk6stFAOUh0klV9MMm FCEztVl3cwpsn3fWFLVI OIAKr4ERtL8XNaeOCYvaCPVT NBIidKcRxPU4HtN75eUT g5c5Gd8ewA1r1VT ACEgYRjPrgiLaVT NBr1YSZ4CpRkHyfr NBfMODJ6qqSjlKJQ4Y59Caj TorLgKgwwgwM8NSbyqzVT krw6pp4cNlDsRkkSrVT NB0lVxSJrA0RxNRUjD1Pr08	72.75 49.07 93.56 35.32 64.68 20.89 93.72 32.54 19.91 50.90 93.16 51.49 57.58 87.31 10.69 56.63 45.39	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTyZcIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm589Zt7nxP1Z0 wIv74xMzvjeDbZVnU43Z9YFrWiEXY LKqNASyY1iN3sbL5kAcTUfcj0frMP U3gPxhD0R0RIGINALFsBwlh3LVyiG67FNw4UJ c32M5KLaRtzQ1e9G2kB475jBRNx5jQonQMFN QRPkGY77tXpxK5ZXrVgnzXBSpw0X HvPVCAjWSofjuvgypvr2Gf0V1Q2WRZThroFnMGEsshn0a qgUv1MbBjrT8dzg1XkrSi8am7xvegPo4abZUsZ4jMVWeA0424 NTNLZLZ2DCKG1KkkI1xHT9Qtvmvuocu2CWGucbX8sf8b7S0fNs YwbB6pVJq3UdgLJEXfMQTbuKKL YoKLMtT09axMM8JbyEPVR6JrR8L8w5AjWJRS99W d55KdMmQN6GrQUXZ2YAQl5rr0jKuPNwLNmadghTZeMCO KVwEUImwufPUFrapcyznNpQ5GKreth038x1MRGbxzsNv4NfhnW AE9kyHWsvyvUoRIGINALmh4Q7M5y0CHnY1gu3y clSQi5Sva0sfiSSuJ7cFQjtKk3CMIYtHB09y	8852 6629 8022 7764 3366 1 193 2378 1 1179 4 4201 521 6 464 1 3540 9 3540 1 2338 1 1144 1 4547 1 4547
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1562 1742 2241 55031 560794 56090 560826 54936 54936 55660 66490 755660 77584 80958 8341 8341 8341 8341 8341 8341 8341 834	RIFBogSYFDCdSwqAjwJSVT FFPe6qRlXS70vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq7IG3yN3pkbVT NB0R9VX7VCkH961j7eGszl NBYLVamk6stFAOUhoklV9MMm FcEztVl3cwpsn3fWFLVT oIAKr4ERtL8xNaeOCYvaCPVT NBIdKcRxPU4HtN75eUT g5c5Gd8ewA1r1VT ACEgYRjPrgiLaVT NBF1YSZ4GpRkHyfr NBFWDD36qq5jlkJQ4Y59Caj TorLgKgwwgwM8NSbyqzVT krw6pp4cNlDsRkSrVT NB0TVSJ7AQRxDRUjD1Pr08 NBDT7IGACHXX4m49qxV2aqCA NB1QWkxfKzrTMppl1olNu NBUEPZTKLT2VUJIameJ7 NBMR1SNjuPyUjzAFvO i4Lz7ejsb6rzlloyDVT aJdyRSwqwCmDprjVT NB6QEVNV8CIFsb x5tioPlqTmcyKspiXVT wNbFITKLRUY9gJBKVT NB6QEVNV8CIFsb	72.75 49.07 49.07 49.07 50.56 35.32 64.68 20.89 93.72 32.54 19.91 50.90 51.49 57.58 87.31 10.09 56.63 45.39 31.75 12.44 1.60 71.54 51.73 2.58 57.32 2.58 29.81 33.29	GeVqL4PpTuXcn9ndn8V05zZQvLvz yFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm5B9Zt7nxP1Z0 wIv74xMzvjeDbZvnU43Z9YFrWiEXY LKqNA5yY1iN3sbL5kAcTUfcjQfrMP U3QPxhDORORIGINALFSBWLh3LVyiG67FNw4UJ c3ZM5KLaRtzQ1e9G2k8475jBRNx5jQOnQMFN QRPkGY77tXpXK5ZXrVgnzXB5pw0X HvPVCAjMSofjuvgypvrZcfGVlq2MRZThroFnMGEsshn0a qgUv1MbBjrT8dzg1XkrSi8am7xvegPo4abZU5Z4jMVWeA0424 NTNL2LZ2DCXG1Kkk11xHT9Qtvmvuocu2CMGubX8sf8b750fNs VwbB6pV1q3Udg1JEXfMQTbUKKL Y0XLMiTo9axMM8JbyEPVR6JrRB18w5AjMJR59gW d55KdMmQNGGrqUXZZYAQ15rr0jKuPNwLLMmadghTZeMGO KVwEUImwufPUFrapcyznNp05GKreth038x1WRGbxzsNv4NfhnW AE9kyHWswyvUORIGINALmh4Q7M5y0CHnY1gu3y c1SQ15Sva0sf15SbU7CFQjtKk3CMIYtHB09x F0AR1tuc4dKpgFwWq5uSlyhYYDcmi50w1ucVqKxunEui TZSMETkkX7hAcTVwg1y9bbpmE44xxfxe c9MskhacvNCZGRgNDusly1ydrrYLa vcABlNHxv4Gi1wN5ncb8lESVunUvojNcQw DNx1e7eORIGINALTN5LHz5E2gSBQNp5JQupYDdbssp91 OGVJ=1EZkjmKCom4VunwQCA4zE iwKWfg32tokwMr7R04HKFJTPTHFAkJ9Cq7qYIgUc6XAga2 YAzwuxZ7JX8EMeTgxyj6KwBgj5wZdk N9zrfKcpbEo19c90RheUSMraRm9JORIGINALIe7 WIYa1JrM1Aa4RNo1dAkbXu47qqygt3a0M88XUdddXbBTyezybV	8852 6629 8022 7764 336 193 12178 4201 521 6464 19936 13540 13540 13540 13540 13540 13540 1361 1444 14547 1361 1361 14714 1561 14714 1561 1671 1771 1771 1771 1771 1771 1771
11562 11742 12241 1566794 158003 169706 164987 155669 164987 155669 164987 175884 171846 173502 176388 17788	RIFBogSYFDGdSwqAjwJSVT FFPe6qRlXS78vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3yN3pKbVT NB0R9VX7VCkH961j7eGszl NBYLVamk6stFAOUh0klV9MMm FcEztVl3cwpsn3fWfLVT oIAKr4ERtL8XNaeOCYvaCPVT NBIIdKcRXPU4HtN75eUT g5cSGd8ewA1r1VT ACEgYRjPrgiLaVT NBF1YSZ4GpRkHyfr NBF1YSZ4GpRkHyfr NBF1YSZ4GpRkHyfr NBF0D6qqSilkJQ4Y59Caj TorLgKgwwgwM8NSbyqzVT krw6pp4cNlDsRkkSrVT NB0VZSJrAORxDRUjD1Pr08 NBD77IGACHXX4m49qxV2aqCA NB1QWKxfKzrTMppl1olNu NBUEPZTktnZYUg1uameJ7 NBRMR1SNjUPYUjZAFvO i4Lz7ejsP6r2lloyDVT aJdpXByauCmDprjVT NB6QEVMV8CIFsb x5iioPlqIRmcyKsPiXVT wNbF17kL8ui99BkVT NBS1VBNPde1NedAbEnc88k4M NBVH8ZiKtwVLq9	72.75 49.07 49.07 49.07 35.32 64.68 20.89 93.72 32.54 19.91 50.90 51.49 57.58 87.31 10.09 56.63 45.39 31.75 12.44 3.42 1.60 71.54 55.78 17.32 2.58 29.81 17.32 2.58 29.81 17.42 1.60 71.54 55.78 17.32 2.58 29.81 17.32 2.58 29.81 17.32 2.58 29.81 17.74 1.74	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG gJ9QrepLFW5HAbnkooG5qU3XhgAURSwm5B9Zt7nxP1Z0 wIv74xMzvjeDbZvnU43Z9YFrwiEXY LKqNASyY1tN3sbL5kAcTU7cjQfrMP U3QpxhDDRORIGINALF5BWLh3LVy1G67FNw4UJ c32M5KLaRtzQ1e9Gzk847sjBRNx5jQOnQMFN QRPkGY77tXpXK5ZXrVgnzXB5pw0X HyPVCAjM5ofjuvgypvr2cf0Vlq2WRZThroFnMGEsshn0a qgUv1Mb8jfT8dzg1Xkr5i8am7xvegPo4abZU5Z4jMVWeA0424 NTNL7LZ2DCXG1kkA11xHT9Qtrwnvuocu2CWGucbX8sf8b7S0fNs YwbB6pVJq3UdgLJEXfMQTbuKKL Y0xLMiT09axMM8JbyEPVR6JrRBL8w5AjMJR599W d55KdMmQ6GrqUXZYAQ15rrojfuPNuLlwnadghTZeMCO KVwEUImwufPUfrapcyznNpQ5GKreth038x1WRGbxzsNv4NfhnW AE9kyHWswyvU0RIGINALmh4Q7M5y0CHnY1gu3y c1SQi5Sva0sfi5SuJ7CFQjtkk3cMIYtHB09x F0AR1tuc4dkpgFwMq5u5JyhYVDcmi5Ow1ucVqKxunEui TZSMETkkX7hAcTvMqiY9bDpmE44xxfxe c9MskhacvNGZ6RgNDuslyiYdrrYLa vcABLNHxv4Gi1wN5ncb8lESVunUv0jNcQw DNXIe7e0RIGINALTW5LHz5E2gSBQNp5JQupYDdbssp9I OGVJe1EZkjmKcOm4VUnwQCA42E iwKWf03ztokwMr7RQUHKFJTPTHFAkJ9Cq7qYIgUc6XAga2 YAzwuxz7JXBEMeTgxyj6KwBgj5wZdk N9zrfKcpbEo19c90RheUSMraRm9JORIGINALIF7 WIYa1JrMA44RNOIdAlbXu47qqygt330M88XUddXbBTyezybV l0CNhIkiOQuHbdcBtH8WbIWSHqaruW4HRRdz3Ek2	8852 6629 8022 7764 3366 1933 1179 1 4201 521 521 521 521 521 521 521 521 521 52
	RIFBogSYFDCdSwqAjwJSVT FFPe6qRlXS70vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq7IG3yN3pkbVT NB0R9VX7VCkH961j7eGszl NBYLVamk6stFAOUhoklV9MMm FcEztVl3cwpsn3fWFLVT oIAKr4ERtL8xNaeOCYvaCPVT NBIdKcRxPU4HtN75eUT g5c5Gd8ewA1r1VT ACEgYRjPrgiLaVT NBF1YSZ4GpRkHyfr NBFWDD36qq5jlkJQ4Y59Caj TorLgKgwwgwM8NSbyqzVT krw6pp4cNlDsRkSrVT NB0TVSJ7AQRxDRUjD1Pr08 NBDT7IGACHXX4m49qxV2aqCA NB1QWkxfKzrTMppl1olNu NBUEPZTKLT2VUJIameJ7 NBMR1SNjuPyUjzAFvO i4Lz7ejsb6rzlloyDVT aJdyRSwqwCmDprjVT NB6QEVNV8CIFsb x5tioPlqTmcyKspiXVT wNbFITKLRUY9gJBKVT NB6QEVNV8CIFsb	72.75 49.07 49.07 49.07 50.56 35.32 64.68 20.89 93.72 32.54 19.91 50.90 51.49 57.58 87.31 10.09 56.63 45.39 31.75 12.44 1.60 71.54 51.73 2.58 57.32 2.58 29.81 33.29	GeVqL4PpTuXcn9ndn8V05zZQvLvz yFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG gL9QrepLFW5HAbnkooG5qU3XhgAUR5wm5B9Zt7nxP1Z0 wIv74xMzvjeDbZvnU43Z9YFrWiEXY LKqNA5yY1iN3sbL5kAcTUfcjQfrMP U3QPxhDORORIGINALFSBWLh3LVyiG67FNw4UJ c3ZM5KLaRtzQ1e9G2k8475jBRNx5jQOnQMFN QRPkGY77tXpXK5ZXrVgnzXB5pw0X HvPVCAjMSofjuvgypvrZcfGVlq2MRZThroFnMGEsshn0a qgUv1MbBjrT8dzg1XkrSi8am7xvegPo4abZU5Z4jMVWeA0424 NTNL2LZ2DCXG1Kkk11xHT9Qtvmvuocu2CMGubX8sf8b750fNs VwbB6pV1q3Udg1JEXfMQTbUKKL Y0XLMiTo9axMM8JbyEPVR6JrRB18w5AjMJR59gW d55KdMmQNGGrqUXZZYAQ15rr0jKuPNwLLMmadghTZeMGO KVwEUImwufPUFrapcyznNp05GKreth038x1WRGbxzsNv4NfhnW AE9kyHWswyvUORIGINALmh4Q7M5y0CHnY1gu3y c1SQ15Sva0sf15SbU7CFQjtKk3CMIYtHB09x F0AR1tuc4dKpgFwWq5uSlyhYYDcmi50w1ucVqKxunEui TZSMETkkX7hAcTVwg1y9bbpmE44xxfxe c9MskhacvNCZGRgNDusly1ydrrYLa vcABlNHxv4Gi1wN5ncb8lESVunUvojNcQw DNx1e7eORIGINALTN5LHz5E2gSBQNp5JQupYDdbssp91 OGVJ=1EZkjmKCom4VunwQCA4zE iwKWfg32tokwMr7R04HKFJTPTHFAkJ9Cq7qYIgUc6XAga2 YAzwuxZ7JX8EMeTgxyj6KwBgj5wZdk N9zrfKcpbEo19c90RheUSMraRm9JORIGINALIe7 WIYa1JrM1Aa4RNo1dAkbXu47qqygt3a0M88XUdddXbBTyezybV	8852 6629 8022 1 7764 1 336 1 193 1 2978 8 1179 1 4201 1 521 6 464 1 9036 1 3540 1 3540 1 3540 1 3540 1 3540 1 3758 1 3118 1 361 1 4714 1 544 1 7638 1 3758 1 3758
51562 51742 52241 55931 56794 58003 560706 64336 64387 66490 666490 666490 666490 671846	RIFBogSYFDGdSwqAjwJSVT FFPe6qRlXS78vLVT uyiDpbxeP0aXVT LJMegMtyirg0Cp8VT Wyyq71G3NN3pKbVT NB0R9VX7VCkH961j7eGszl NBYLVamk6stFAOUh0klV9MMm FcEztVl3cwpsn3fWfLVT oIAKr4ERtL8XNaeOCYvaCPVT NBIIdKcRxPU4HtN75eUT g5cSGd8ewA1r1VT ACEgYRjPrgiLaVT NBF1YSZ4CpRkHyfr NBF1YSZ4CpRkHyfr NBF1YSZ4CpRkHyfr NBFWD16qqSjlkJ04Y59Caj TorLgKgwwgwM8NSbyqzVT krw6pp4cNlDsRkkSrVT NB01V2SJrA0RxDRUjD1Pr08 NBD77IGACHXX4m49qxV2aqCA NB1QWKxfKzrTMppl1olNu NBUEPZTktnZYUg1uameJ7 NBMR1SNjUPYUjZAFvO i4Lz7ejsP6rZlloyDVT aJdpXByauCmDprjVT NBGQEVNV8CIFsb x5iioPlqIRmcyKsPiXVT wNbFI7kL8ui99BkVT NB510el9Ned46bEnc88k4M NBVh82iKtwviq9 rYCXURoaVZbfhpyVzvjK9VVT NBI9NcyPezKm6jbe NB190ZxetL3M899BV	72.75 49.07 49.07 35.32 64.68 20.89 93.72 32.54 19.91 50.90 651.49 57.58 87.31 10.69 56.63 45.39 31.75 12.44 3.42 1.60 71.54 55.78 17.32 2.58 29.81 33.29 41.74 87.83	GeVqL4PpTuXcn9ndn8V0SzZQvlvz yFVP13TMFeREwUTy2CIQ3h4XyHKXapyh9M7AG gJ9QrepLFW5HAbnkooGSqU3XhgAURSwm5B9Zt7nxP1Z0 wIv74xMzvjeDbZVnU43Z9YFrWiEXY LKqNASyY1iN3sbL5KAcTUfcjQfrMP U3gPxbD0R0RIGINALFSBWLh3LVy1G67FNw4UJ c32M5KLaRtzQ1e9Gzk847sjBRNx5jQ0nQMFN QRPkGY77tXpXK5ZXrVgnzXB5pw0X HvPVCAjWSofjuvgypvr2Gf0Vlq2WRZThroFnMGEsshn0a qgUv1MbBjrT8dzg1Xkr5i8am7xvegPo4abZU5Z4jMVWeA0424 NTNLZ1Z2DCXG1KkK11xHT9Qtvmvuocu2CWGucbX8sf8b7S0fNs YwbB6pVJq3UdgLJEXfMQTbuKKL Y0XLMiTo9axMM8JbyEPVR6JrBBl8w5AjWJRS9gW d55KdMmQN6GrqUXZ2YAQl5rr0jKuPNwLWmadghTZeMGO KVwEUImwufPUfrapcyznNpQ5GKreth038x1MRCbxzsNv4NfhnW AE9kyHWswyvU0RIGINALmh4Q7M5y0CHnY1gu3y c1SQiSsva0sf15SbJ7CFQjtkk3CMIYtHB09x F0AR1tuc4dKpgFwMqSu5JyhYVDrni50w1ucVqKxunEui TZSMETkkX7hACTvWgiY9bDpmE44xxfxe c9MskhacvNGZ6RgNDuslytYdrrYLa vcABlNHxv4Gi1wN5ncb8lESVunUvojNcQw DNXIe7eORIGINALTMSLHZ5E2g5BQNp5JQupYDdbssp9I OGVJe1EZkjmKcOm4VUnwQCA4ZE iwkWfg32tokwMr7R04HKFJTPTHFAkJ9Cq7qYIgUc6XAga2 YAzwuxz7JX8EMeTgxyj6kWBgj5wZdk N9zrfKcpbEo19c90RheUSMraRm9J0RIGINALIe7 WIYaIJrMIAa4RNo1dAkbXu47qqygt3a0M88XUdddXbBTyezybV l0CNhIkiOQuHbdcBtH8WbIWSHqaruW4HRRdz3Ek2 vRrGpjRwkEHklVku0yKf9e0S0czko8G61awkbZLrPAL4nY	8852 6629 8022 77664 3366 1 193 1 2378 1 1179 1 4201 521 1 6464 1 9036 3 340 1 3540 1 3540 1 3541 1 361 1 361 1 4714 1 544 1 5

2、统计以名字开头字母在 h-m 之间的商品数量,以及平均价格。

select count(i_id), avg(i_price) from bmsql_item where i_name >= 'h_%' and i_name <= 'm %';

三、all/any 的使用:

我们作以下定义:

如果商品 a 在仓库 b 中的数量大于 10,则称为仓库 b 有储备商品 a;

如果数量大于 50,则称仓库 b 有充分储备商品 a;

如果数量大于95,则称仓库b主要储备商品a。

- · 商品 a 在仓库 b 中的数量为 s_quantity from bmsql_stock where s_i_id=a and s_w_id=b。
- 1、对于二.1 中的商品,找出在所有仓库中都有储备的商品,输出商品的所有信息。

select * from bmsql_item where i_id in (select i_id from bmsql_item where i_name like 'NB_%' or i_name like '_%VT') and 10 < all(select s_quantity from bmsql_stock where s_i_id = i_id);

i_id	i_name	i_price	i_data	i_im_id
7401	NBuu59RJjg8uMJFto1	56.98	+ г7wuH8uNj4jpWIZ3whfL3pIIг7I	682
12695	NBW7idbsNsZID1	82.00	tir3lnQcPUsa9DiwWPOoSZsrOLfLIqNAn4WYHgEQMNrnzGEinI	1477
12927	NBwGVc1r74kny0Fmj9zf6	7.33	v0HPJ7uBQmPQyYS2HiGj4wk6OcGxyAGVBDvu2E2S	8453
13759	NBbBDRrD9uj2IlnXW	68.74	nC4jRz8XfPowJprpJ5erSa63wedWdlnCn5KWtH5UIBvs1TzkJw	4212
14820	YolKqETzUbp6I1KCYVT	1.61	MTSefnavj0DvYP7YboQyy3wtpU0tk7v6F0i8WjJj8GTZx2R9	3842
15020	CZC1Ik6Z8l9VWiVT	92.72	CfA8cCDxADSP1Ciap1mQkLcArEihsQjsaqm2RPOyxTl4	5347
16821	NBUbrAjL8MzGFJSuV	20.91	EBwgZ4Z7ixUq3zFRQsdIqtlNxgUQ0Ub	4400
20955	NB8SRWPLR9wevoZ8lRnb	51.05	yRLuMOPfSbhiqnOVrjuGCFORIGINALR2hNOY7bXqeGOi	6400
22770	e68NISbyOpXvXB6GdhhL7VT	91.38	MHZ90Drtmh3tAY9T8kYLGmIKApuYnTVZ8Whjpjwt0bFRAtm	6122
24070	KO9SW8UJBhIjMGLOqzjVT	94.03	svppruv903slFvWy0wPx66SZBU6YolBq04Xlbc31NNISdi	6799
24523	f2f6PJeEogY1c3A0XWVT	52.24	p8LazqN2bvi4X9TCKFGVwgbKxxHiSA4CbGmmjTl000HW5pr	7574
24861	NB7reMYICr0HLRolci10ZxFT	48.83	OOctwWLTpTAydDvOT352UYltrCQI4jnWy	4116
24999	OajqdrnmLkMhPDIjSBESLFVT	40.61	yRXya1FqthlBO5DzsPD0AhizBQA	1597
33305	NBpmGSBR6BcpV2cD5lP	44.15	jChiLs5nDrNT7DlFmiXcp1wHTAZ	6268
33710	NBYUu8o4Dvgzvjc	48.36	dqphKcRNsllW5C6BED6gYAaf0XST9tieclBevKLM6tNAE	1648
41245	cNcVH8uSFN93s89NvKKLVT	31.30	h85JaXL7aS5MBYUqMOzV2VslQJCQd9FjpKbRZfDrMNQuj	1020
42028	hyStdRFXb32ptwWz7nm3BAVT	41.47	Fkt6Eg3srIT86g8uw1cEMAz5htzLRQhqKndd0x8YwxL0hk0	5398
44593	NB6srxukNAg01QJq	1.51	KmCfVzGnZkCGmBbSMIbGAFtwKseCQlD	4476
46084	azSGgMZhlmuLoDYrVT	46.36	VqP66Sceckn01i3z9eSAjoJfDA	553
49168 51562	CnprbIoQ3VGflMC0syCPhVT	99.12 72.75	WeKTaAJPIDfEY2Fr50RIGINALsERWHzyko2kQNYcjT5	8846 8852
53139	RIfBog5YFDGdSWqAjWJSVT	72.75 70.34	GeVqL4PpTuXcn9ndn8V0SzZQvlvz cBFvNa63UpU5GDPktruB27BYMdImEBZCd	5735
58003	NBqOqQvyisfDt9 NB0R9vX7YCkH961j7eGszl	20.89	CBFVNaOSUPUSGDPKCTUBZ/BYMQIMEBZCU U3qPxhDORORIGINALFsBWlh3LVyiG67FNw4UJ	193
60706	NBYLVamk6stFAOUh0klV9MMm	93.72	c32MSKLaRtzQ1e9G2kB47SjBRNxSjQOnQMFN	2378
64336	oIAKr4ERtL8XNaeOCYvaCPVT	19.91	HvPVCAjWSofjuvgypvr2Gf0Vlq2WRZThroFnMGEsshn0a	2378 4201
64987	NBIidKcRxPU4HtN75eUT	50.90	qqUv1MbBjrT8dzq1XkrSi8am7xveqPo4abZUsZ4jMVWeA0424	521
65660	q5c5Gd8ewA1r1VT	93.16	NTNLZlZ2DCXG1KkkI1xWT9Otvmvuocu2CWGucbX8sf8b7S0fNs	6464
66490	ACEgYRjPrgiLaVT	51.49	YwbB6pVJq3UdqLJEXfMOTbuKKL	9036
68027	NBr1YSZ4GpRkHyfr	57.58	YoXLMiTo9axMM8JbyEPVR6JrRBl8w5AjWJRS9qW	I 3540
68351	NBfMODJ6qqSjlKJQ4Y59Caj	87.31	d55KdMmQN6GrqUXZ2YAQl5rr0jKuPNwLWmadghTZeMGO	2338
68666	TorLgKgwwgwM8NSbyqzVT	10.09	KVwEUImwufPUfrapcyznNpQ5GKreth038x1WRGbxzsNv4NfhnW	1144
73502	NB0lVzSJrA0RxDRUjD1Pr08	45.39	clSQi5Sva0sfiS5uJ7CFQjtKk3CMIYtHBo9x	8318
77584	NB10WKxfKzrTMppl1olNu	12.44	TZSMETkkX7hACTvWqiY9bDpmE44xxfxe	4714
80958	NBuEPzTktn2YUq1uameJ7	3.42	c9MskhacvNGZ6RqNDuslyiYdrrYLa	544
84429	aJdpXByauCmDprjVT	55.78	OGVJe1EZkjmKc0m4VUnw0CA4zE	6603
84908	NB60EVNV8CIFsb	17.32	iwKWfg32tokwMr7RO4HKFJTPTHFAkJ9Cg7gYIgUc6XAga2	971
86213	wNbFI7kL8ui99BkVT	29.81	N9zrfKcpbEoI9C90RheUSMraRm9JORIGINALIe7	2640
CECCO	oFaFCd00:://1=1\/T		NTNI 71 7200VC1KI/LT1VI IT00+ mm a cu2Cl Cuch V0-f0h 750 fN-	CACA
65660 66490	g5c5Gd8ewA1r1VT	93.16	NTNLZlZ2DCXG1KkkI1xWT9Qtvmvuocu2CWGucbX8sf8b7S0fNs YwbB6pVJa3UdaLJEXfMOTbuKKL	6464
68027	ACEgYRjPrgiLaVT NBr1YSZ4GpRkHyfr	51.49 57.58	YWDB6PVJq3UdgLJEXTMQIDUKKL YOXLMiTo9axMM8JbyEPVR6JrRBl8w5AiWJRS9qW	9036 3540
68351	NBfMODJ6qqSilKJ04Y59Cai	87.31	d55KdMmON6GraUXZ2YAOl5rrOiKuPNwLWmadahTZeMGO	2338
68666	TorLgKgwwgwM8NSbygzVT	10.09	KVwEUImwufPUfrapcyznNp05GKreth038x1WRGbxzsNv4NfhnW	1144
73502	NB0lVzSJrA0RxDRUjD1Pr08	45.39	clSQi5Sva0sfiS5uJ7CFQjtKk3CMIYtHBo9x	8318
77584	NB10WKxfKzrTMppl1olNu	12.44	TZSMETkkX7hACTvWgiY9bDpmE44xxfxe	4714
80958	NBuEPzTktn2YUg1uameJ7	3.42	c9MskhacvNGZ6RgNDuslyiYdrrYLa	544
84429	aJdpXByauCmDprjVT	55.78	OGvJe1EZkjmKcOm4VUnwQCA4zE	6603
84908	NB6QEVNV8CIFsb	17.32	iwKWfg32tokwMr7RO4HKFJTPTHFAkJ9Cq7qYIgUc6XAga2	971
86213	wNbFI7kL8ui99BkVT	29.81	N9zrfKcpbEoI9C90RheUSMraRm9JORIGINALIe7	2640
91822	NBvh82iKtwviq9	41.74		4323
92539	rYCXURoaVZbFhpyVzvjK9VVT	87.83	vRrGpjRwkEHklVkuOyKf9eOSOczko8G61aWkbZLrPAL4nY	6690
93847	NBIgNcyPezKm6jbe	31.44	DQhbjUQr30RIGINALan9nzFg1Xyo7aFNrdQU00SUf	7968
93972	NB190ZxeiL3M89a9BV	86.05	syQVIZWuu4gWQ0kcytocELBnezK2a9B2AwpeE97YaMHFbp	2479
(41 行证	录)			

2、找出至少有一个仓库主要储备且该仓库销售税 (w_tax) 大于 0.16 的商品 (使用 any),输出这些商品的所有信

息。

select * from bmsql_item where i_id in (select s_i_id from bmsql_stock where s_quantity > 95 and s_w_id = any (select w_id from bmsql_warehouse where $w_{tax} > 0.16$) group by s_i_id);

i_id	i_name	i_price	i_data	i_im_id
1	hdq3Z0pVzg0faM	35.29	OLDHQEmORIGINALNPiH64DPDU7xxl2ikNRJ7Hsx6btDLWI5x	9847
6 7	APsPJCXS9UJdxchiygS fm9av64cXKDBHV4Mn	36.42 86.71	AdfGEZH1SQTcM6JVntxbX39OwOqUgjZjlCHFSiLLqmDh6Su8G kQBw1GEizkhVINf7pmhd04r11JSrtia8wL4n7Wi4HctmIaoPYY	8625 1636
9	k1RVZkyQfrdbHx	42.04		3576
10	eHGLLCSX1xYMoc	91.17		8624
11	wbJY8I6GvJ0JEQ	94.20		4646
13 15	VJAYrOl9RgN8MVEP2OjbxF IUIHats5kefSHwly7	87.17 1.90		4955 637
16	fEO8UUgPhP1GwwQuL0RAgXm	48.76	WenXExCsCYUm1ee7sXdCc5aXxhbMBjplqiCQEn8ecygbsKHm2 s64gDNCCnN0LryPy2py756hzoYdVm	637 5064
17	lg0vTjRO0wlJlG	85.06	xHDXfsMoJL37nSxmIcxH25yUanqC2irD	9593
21	l3W8DWQjujw8hm2cIv9	79.93	RkwHpiJ8eIWTsKzXtfAyt0pIqf3cDjLd89tx5njShhX	8478
22	ptxDTjH3kKIJ6g3ruSYq582	20.29	OTuabJRDhVxh9btWzyCmBnORIGINALdzj	6122
24 26	Gnzh5QXyJKV4PS1 IDBVYQIuRmRr74dzj	93.43 68.08	RiQnG3v40KCibaM8ZeBdeOeZyxO28h3gDles2BSXD4gbs5L dvqq9aPJL8zOt5F74B1hrN1hhLISROJgDxUwAB6Qn0jfepC1Xu	5930 5419
27	bhX9PyPuay3nIcde0yGdUtzR	97.42	vRiVLfqie5wvyaXDR2GCdsqgE8jB1zHzmhdlneqTr4W	7573
28	fkETjWQeqqEv4iukshiAtnk	65.44	VhjhD8w8Lwnuwked0QDc2PA4aazn95	5923
30	w4X701NsbUKuLkyKy0XEqWIS	93.73		4115
31 32	gmwHPpqI2AufE6 OirLbGgztU1DHM1B8J	82.19 74.61		1833 6967
34	uElONlHSCZjGA2g	37.70		6084
35	Hd14MIuFHzrzazsKJ0	45.33	gOg21piRTRm9tqmQaYo5JoDI3LIWty0F4VXJiC	7686
37	VNkwfp7jThAOWcZ1bya9VD	1.39		4387
38 39	Is7qCbt9RSg7XZPB nBvqh9gSkfIQjoBVl	23.28 46.95	sX631vTKreYpUs9a0aBBWORIGINALjoTtb Q6vZVQXIxncrSv36MMNPDCzSx1zv	6650 1990
40	VV82p3CDzo2nhYp	89.93	qKgACn88XBORIGINALGlyIIPflHOXSP	2858
41	itlva3DehSYsRYT9nBQHS	83.66	zM9Tu1TiIrXpr1p6q94SvoIdCe	9918
42	V9oJYHQQfFYRBALNgk6pX	93.99	vRADEIETkK4Ht4ByIas687H1cErfhIJpEZzj62vHlsgvH	2316
43 44	f7QgkMyaaIoWXka1HpC0VyPY VYmttmKudDcTonGMIpT	30.16 35.24	lf7CApCvqnbbyG225optkoNtKzfPzqtroj FCqYl68UPUANeFof8Cz8nuW5Dc6ofeLP3WrsZUPHiSleUvAi6B	465 3299
45	cST40KhIHzrl1Xte8p9IazKi	50.47		8626
49	m7VJ8sU325TkqsKoWiqBryY	83.98	J8UVUEITRAXwD2DEtyYST7Z9D7HiFO1bk5tNCX3XqB	8666
52	senbIN8QtjL7K7hqINC	22.57		2605
54 55	ik48wQKJTpdplNUrRq V49hGOfhXHBtGXT85D	21.14	XRtD9VcKelCfSoBZtW40v70wRMHUFMiWiguHHRar OfoUGD5D9henH0QusFmd8vdC9UMxXTUsOvYCgz806MkXj8Hjvh	9600 6582
56 I	ZCya6iMnzjdRER8JAwhDBNq	35.79 81.47		6582
58	BGwhgpvzEuTq5x7	88.05	SHPbpaOjpnYRvoO0tEqpCstTTK	6993
59	f262cPq6dA22qVZUSFKU9pS	42.32	dMWcnJbWimmEwLa5Nq5e0bm99FmNMHdT	9580
99942	M/HGAMSeTeY4X1ZC	87.77	FMUKIGINALAq/olaatDCPVPX/QtelTApeE	6676
99943	r0DMLzFv8y5u8dWBRVOMeiw	87.86	HZ5f5KNLEpuL9aah0JWi9doiWiStzXnqNbp0hu9si	4936
99944		24.11	eY5glKwCFewxfqb6fg567YTEfqcsFH2X2TQ20RIGINALKCZVkU	856
99945 99946		3.85 1.06	kbALQBY8e1IsW7P5gKJ3vlKCmfY6sGwV5KIGN5 vNNxgZq51wTNtlNZVTTEVyCi48r0We1	7858 7764
99947		86.13	xljGoGyFc5121T8d0XeZEe7C2IluKs0Bgdu0ZkBNJF	5176
99948		4.98	t59Br4R5UT9BqMeleuZwIAPhIYgj	7767
99949 99950	HT0Hb36MBBo2v4XRf1 lBkN3CSEb0J4xT3cXK	68.41 87.09	oDtRfhQpYlWluTB4cDMg7LmWCgUVeh rH9YN4JZ1IZ7XAsRNPjG5Z3Bhnkg8C9zEqWIYLmHwS7XxOXcZ6	7562 6241
99951		37.30	E2hx2NSGIySceG2bbgsL9ay6950RIGINALevgbnSmcLPn	2712
99952	SBrAG3UPgz5p0bhb	44.74	yxpksF0qw9wmEtElZw7llYY0GTLisIkX0ly5hBfZw9rATf0Bxg	772
99953	TLz0eQ5XRAsaYJlThJlHG23	3.22	mnNXXrLxCYYiN5rHm6STKYiwDS20kgBNZ9kgyp9UVwns4iXe	7057
99954 99958	PqalVsoLc29ch2n4jTIegCb l60V2JjvdjTcY4bvR3a	49.40 71.15	Od95bRDEVcDPWitayPzZFfmRjg2mUPIUkAafb09C44cN0xWP	5039 3955
99962		59.80	w0tG3WwThBVU4KdidTU3MpXVzn6CTw19s	3072
99963	ydONLhKDF05VTFSSS1VM	9.20	HqXabFpWqPjzJNdxzXqaFS1iSy52Tt906CySZrzhACStchCNYX	4766
99964	CemnZUbdafpdJhwCCjTlp7	7.50	gDlDyGGZBmtAewrdDrtf2e3TfpND	9060
99965 99966	iqdSPRjbZegXDRSXICJGU0 wo5I2x5hw4l6sORpkRYuBt	70.58 47.81	U7VtchVw94yrOFSC5Mx0McludZXtgPnb YLigH5wA0U6Lx98IvOYdLPk3Zbw	4237 8979
99968	OpjqjO5UqmrCAYt	95.71	TK0ezi6xbT0A7QFKHEd0v3fSLynZ4diIVWm0A	1494
99971		55.00	a6fxPIuQlhashY7uhRzxMb7e53HK8	4906
99972	ry8nine2gG4amQR o9myGxzLIL2EJn	2.51	QqOvwqlYBqyVkZWu1gFLryRUqQ5 c7Srb6mzePi4MMFWYfiiGy81hxRf1dzVCMSaDy	6288 7135
99974 99975	Cn1S2I4ri6UCQa6a	18.13 63.65	SVO49r4ggYWwqS4cFtl5qLK6bbuHevAYrZZWK8PygIXvRj	7135 1196
99976	IJyBRGHXxwS8PwvGdhj	11.45	Puo0GhpktPjtIP1oSBmRuHREk3cfMG9L2Fi2OU	9277
99978	RzNA0DiBu1sFeXAurOC	52.89	OruORIGINALI2RXbXOuqGUEgq209KmpqfCL	2057
99981 99984	QHbMwTKtzyg8ENxWP KJ7UsZ2E12TYs9dc4pDp	33.19 51.90	YsNisyxVaVVf8bnr4lf4O8u5jpZC8Io	4788 4006
99984	TbFpKmFun71h0KVvcNd6eKPT	6.05	TPOTIPTOATOINMOLAGCSKTMNF4Y0AYWO zUGv3WPm5V65j69pd6gLQZE9ai1szup4ViK	3292
99990	zN3mtorJkwj3eIk4gYp	43.86	N9K2xmMkfBCQNdMhIfFGbZi4ImESmQKQQUC0FdBok6SRp	2887
99991	lKiNYpmt9IFcOu6eR	65.24	NA6KuiMSWfdE0FHWPTpVICuiojvbPct0q6e9	7465
99993 99994	IGl3HYj4DZBYr5A5Z4dFEW DrgnP0nt1aNXM330BPUeiL	30.54 60.87	YI8SaMVr6oNrfKfZlQzjjNs8x7hHI8lyExgCFxCQmgF vm1nMd4Zk7stJzDPeOHWWjZ3yZK7t4jRKDxu	792 359
99994	IgWTrMatCNStu3P	13.94	K361bHEMRjKev5RJn6PTR2nl2dmlkRS0yp	1466
99996	LQhTCNxtiaO0JL	99.53	Wjp36T0GX1GWxDZxpiti5cLwErCGOM4akOI8RUYkn	2278
99997	H5x3KEwuWV70T1m1Yv	55.47	rumZ1DvAjmBcuJX8V0BUL0RIGINALkF8fk0d0z0cv	9358
99999	zM8QucuEIT8emI1Ra1ZJ1Cq0 行记录)	52.90	Jlw8aHuYd3h5afBQk5RiNHNB8GqN2sIpWSc4z0IvX	2688
(55501				

1、找到有商品税大于 0.18 的仓库主要储备的所有商品,输出它们的所有信息。 select * from bmsql_item where 95 < any(select s_quantity from bmsql_stock where s_i_id = i_id and s_w_id in (select w_id from bmsql_warehouse where w_tax > 0.18));

i_id	i_name	i_price	i_data	i_im_id
	APsPJCXS9UJdxchiygS	36.42		8625
7	fm9av64cXKDBHV4Mn	86.71	kQBw1GEizkhVINf7pmhd04r11JSrtia8wL4n7Wi4HctmIaoPYY	1636
9	k1RVZkyQfrdbHx	42.04	USEvBjvwHhefXSIU6wwlhaC7BmTM6ORIGINALvLS	3576
10	eHGLLCSX1xYMoc	91.17	IV3nEFj1Ts9xWvybJi03If6IU0a	8624
11	wbJY8I6GvJ0JEQ	94.20	Ngb0nkHnYExZtA0YKM2SDpLFXP7Zlf48pmbwks6wMl	4646 4955
13	VJAYrOl9RgN8MVEP2OjbxF	87.17		
15	IUIHats5kefSHwly7	1.90	WenXExCsCYUm1ee7sXdCc5aXxhbMBjplqiCQEn8ecygbsKHm2	637
17	lg0vTjR00wlJlG	85.06	xHDXfsMoJL37nSxmIcxH25yUanqC2irD	9593
21	l3W8DWQjujw8hm2cIv9	79.93	RkwHpiJ8eIWTsKzXtfAyt0pIqf3cDjLd89tx5njShhX	8478
22	ptxDTjH3kKIJ6g3ruSYq582	20.29	OTuabJRDhVxh9btWzyCmBnORIGINALdzj	6122
24	Gnzh5QXyJKV4PS1	93.43	RiQnG3v40KCibaM8ZeBdeOeZyxO28h3gDles2BSXD4gbs5L	5930
27	bhX9PyPuay3nIcdeOyGdUtzR	97.42	vRiVLfqie5wvyaXDR2GCdsqgE8jB1zHzmhdlneqTr4W	7573
28	fkETjWQeqqEv4iukshiAtnk	65.44	VhjhD8w8Lwnuwked0QDc2PA4aazn95	5923
30	w4X701NsbUKuLkyKy0XEqWIS	93.73	uNpx1VfQjMcB9Wy2Piz1m7FEei9NbkKf8neMe68	4115
32	OirLbGgztU1DHM1B8J	74.61	stbqem8My6fkkFBbkJcIa1UgeAd52A7042xy9w	6967
35	Hd14MIuFHzrzazsKJO	45.33	gOg21piRTRm9tqmQaYo5JoDI3LIWty0F4VXJiC	7686
37	VNkwfp7jThAOWcZ1bya9VD	1.39	rdjkB9BKxPN3xVdYqvF0ws3yh8y7FjdasN3uBBny2ba951CTh	4387
39	nBvqh9gSkfIQjoBVl	46.95	Q6vZVQXIxncrSv36MMNPDCzSx1zv	1990
41	itlva3DehSYsRYT9nBQHS	83.66	zM9Tu1TiIrXpr1p6q94SvoIdCe	9918
42	V9oJYHQQfFYRBALNgk6pX	93.99	vRADEIETkK4Ht4ByIas687H1cErfhIJpEZzj62vHlsgvH	2316
43 44	f7QgkMyaaIoWXka1HpC0VyPY	30.16	lf7CApCvqnbbyG225optkoNtKzfPzqtroj	465
44 49	VYmttmKudDcTonGMIpT	35.24	FCqYl68UPUANeFof8Cz8nuW5Dc6ofeLP3WrsZUPHiSleUvAi6B	3299
49 52	m7VJ8sU325TkqsKoWiqBryY	83.98 22.57	J8UVUEITRAXwD2DEtyYST7Z9D7HiFO1bk5tNCX3XqB	8666
52 56	senbIN8QtjL7K7hqINC		b04oos1FilYzCNywC8Ji2DHEhusybHm8poQc	2605
	ZCya6iMnzjdRER8JAwhDBNq	81.47	tOyoEbaEKezKMd2TSG1ZAVJOjzzzXSrHwt4Y5	6647
59	f262cPq6dA22qVZUSFKU9pS	42.32 76.58	dMWcnJbWimmEwLa5Nq5e0bm99FmNMHdT	9580
63 64	wcT9tMi4DVAd8G		IlJRdKr0DlBb72MMKG3jhjgPuF4JLCS	7974
66 I	r5RttRTOXRsJdgVIAQ	23.02 37.79	WQG3oAJuDvwMP0u7etKNSI2265IqNMMXWXqLVRVlwB	1127 2450
67 I	aPsPWEATfB8bSEKMY CSCigCj3lkW1jPMCl	68.42	INTYNORIGINALGOTROGZXZNIGOSNOSPERNAJOWEDOGSJQXKSGE6	7690
69	XnibcWc0dhRn98Rbn7G3	14.18	W3fdgRQ283I14ZlOUo0T8aEtwe	8331
70	BTM7F8z0dVohGWGI1mTPam	73.35	VWPxlAhipyBhp2x0ppZSKR2cIhvphJ5	5458
70	mI8iMEWDbgZhpm00ECH	16.86	Pnm6uPuFnq22nBEiFC0ORg4GfU6jtoXP1l2w50XVf5FFFb	9816
72	QATYIVDHbsA5ZN66KYKzNPk	82.13	eqDL6fIuUNac4TzaKffi6MjeGxhPX0sx3yBnidrro7yki	7880
74	Ou5nXRviuMIX8Jm	57.41	x5MT7bAUDzkNkRLwNbS4rlelwxgUmRzOp7SZtULJ	4340
7 - 79	JiKDxr0TqqExP78Vv	82.78	QLnOPrzyyzIASHbfLHrafQU5NJMA3pm	8079
80	Iaw2Snb6UXM1tp7JeDPau5UZ	31.07	bc9kFUHpAq7PCOoKbwzHJCaQuAViMvYnKF1n32wiE	592
	,,		· · · · · · · · · · · · · · · · · · ·	
99958	l60V2JjvdjTcY4bvR3a	71.15		3955
99963	ydONLhKDF05VTFSSS1VM	9.20	HqXabFpWqPjzJNdxzXqaFS1iSy52Tt906CySZrzhACStchCNYX	
99964	CemnZUbdafpdJhwCCjTlp7	7.50		9060
99965	iqdSPRjbZegXDRSXICJGU0	70.58		4237
99966	wo5I2x5hw4l6s0RpkRYuBt	47.81		8979
99968	Opjqj05UqmrCAYt	95.71		1494
99971	Jst367SABDJWwemBlp	55.00	a6fxPIuQlhashY7uhRzxMb7e53HK8	4906
99974	o9myGxzLIL2EJn	18.13		7135
99975	Cn1S2I4ri6UCQa6a	63.65	sVO49r4ggYWwqS4cFtl5qLK6bbuHevAYrZZWK8PygIXvRj	1196
99976	IJyBRGHXxwS8PwvGdhj	11.45		9277
99978	RzNAODiBu1sFeXAurOC	52.89	OruORIGINALI2RXbXOuqGUEgq209KmpqfCL	2057
99981	QHbMwTKtzyg8ENxWP	33.19	YsNisyxVaVVf8bnr4lf408u5jpZC8Io	4788
99984	KJ7UsZ2E12TYs9dc4pDp	51.90	nP0hpT0Al6Iwm6LAgC3KtmNF4Y6AYwo	4006
99986	TbFpKmFun71h0KVvcNd6eKPT	6.05	zUGv3WPm5V65j69pd6gLQZE9ai1szup4ViK	3292
99991	lKiNYpmt9IFcOu6eR	65.24		7465
99994	DrgnP0nt1aNXM330BPUeiL	60.87	vm1nMd4Zk7stJzDPeOHWWjZ3yZK7t4jRKDxu	359
99995	IgWTrMatCNStu3P	13.94		1466
99996	LQhTCNxtiaO0JL	99.53	Wjp36T0GX1GWxDZxpiti5cLwErCG0M4ak0I8RUYkn	2278
99999	_zM8QucuEIT8emI1Ra1ZJ1Cq0	52.90	Jlw8aHuYd3h5afBQk5RiNHNB8GqN2sIpWSc4z0IvX	2688
	行记录)			

先从 ware_house 表中找到 w_tax>0.18 的所有仓库 w_id, 然后从 stock 表中找到 所有匹配的仓库的 s_quantity, 最后从 item 表中比较 95 与 any(s_quantity), 可 得到所有符合条件的 item 的信息

2、找到主要贮备有以'SP'为开头的商品的仓库,输出仓库的所有信息。

select * from bmsql_warehouse where w_id in(select distinct s_w_id from bmsql_stock where s_i_id in (select i_id from bmsql_item where i_name like 'SP_%') and s_quantity > 95);

w_id	w_ytd	w_tax	w_name	w_street_1	w_street_2	w_city	w_state	w_zip
3	300000.00	0.1651	Lah3It	WGtz5zxhFn6H	GgLohNKSHH4R6	tfI8syBr2XhJK	KZ	610711111
1	300000.00	0.0217	D4SY6N	Pl2s1jD87YBvx	chZC6EbGHESDdeS2	DXJjwFyyWrvMpLi	CL	175811111
2	300000.00	0.1103	sjA7fF0	LhXy6qgqHRQ9NrtEP15T	ycf6eXbV2CpMuKW1zl	z3qeekTeru5XVEUe	NQ	349211111
4	300000.00	0.1241	V6SocKlTsl	X73QcmsTTj9sbrxfv8	vdZGWFRp2wJsxybUUomB	NRLIdsmPAz	נא	967211111
5	300000.00	0.1573	B5hyCC	PrwQ0QbKQpCq1pHP	aCcPt9f8dp0ISyYv0U	WgwOJe0l20FfETbHQZL	כא	865211111
6	300000.00	0.1944	SRDP005	F8ImnfMl8mV4hl	Fn4uVf9fADEU	DcuGQsHC8qIYoW	AW	993511111
8	300000.00	0.1976	HnUvQ6Wo	0U61UF38uLIquv	fkq7t95HFUIQvD9W	RKQ2tbTzNpCh0	GO	992811111
10	300000.00	0.1720	Γ1BG1WA	i4WaE7h2BYVEnJ	AeWrarUi0IedXVN	y9RVccKT6x8A	GI	540311111
12	300000.00	0.0269	vwkY2V0t	y8zUROFQWogTaX	DHL0J0Tz5KvRKR0xG	teaUxIovpSCk	GW	378011111
13	300000.00	0.0234	dNr5kV5	GrlJy3mHu8rZJNl	Jffu4GSuIagc	NEvY0sd17TuSqw9Kw	KI	177311111
14	300000.00	0.0437	blrkJY	rU7kRo3phBG	p8q6hUHvDEXJf28mVPC	H2suMF66aOqXE6CrBe	QI	629811111
15	300000.00	0.0304	XOUjQkn31U	SZKNdWSQA1	AH8ZJF3lSpsbeEY	a7dpj0W9IjGSwbYcuE5	OU	905211111
18	300000.00	0.1706	ZiP7My7j	Hos8LJfJBRUCVBSEkZ3	xUPzQwlJGcYKZBzG8	iopADabtLF3wfFj4	XE	735711111
19	300000.00	0.0161	iB7Elj	SmVXXTXdYW7WVdvGYPvI	SXDiFfYWl5	WPqtubkpSCsWI2	QK	816411111
21	300000.00	0.1895	a05XhG	e6Z1EVzfF4tvi6sQz	Lurhr2TzGcXas4MSmKZ	NALSyWdSG0	MQ	848411111
22	300000.00	0.1978	iUmGQO32Ct	uuqKR4gZkQmCw	ycybgmZ2wtux4hclG	W4e4N2tFQJupC	UB	676111111
23	300000.00	0.0197	FaHIyu2gk	zqh3HjTtUNZl	FCsCk399GoszD1Ac	IINMVynJVjd	MI	484111111
26	300000.00	0.1907	bwtpe2cLf	iOgC4K66afviUPIK	XeCx0KDa8cUqYIt1aXhq	ye6MLRK1RTG3	ZL	576611111
28	300000.00	0.1391	SF3I86HRhs	DUzpCEAPQf3ddoRkv2	muAdwt35r5rEXp8t	Jr5Uwriqd4AJPzLWE	VJ	710511111
29	300000.00	0.0442	Grshrd2	ftfFMpqoPCmrqeIG	Om2Nhbz7IT7QDNaxBt	bJQ7rYsnzAIPvb	FF	192611111
30	300000.00	0.0186	YQSX1L	hhpoMyjt5NrBPjv6aS	DIT2jrLCBze	QnELtPVZWXk9BjEWU	AB	671311111
32	300000.00	0.1452	Y1r32N	VynSiVBX3k6	cVHluTRRWjFVPdeFOY	hBFt8T9xVq3yX0D	PA	696311111
33	300000.00	0.0065	AR5TzV	XiLbSozM0mhQZ	oSCEdsOTMY	OGM3OKS6fpeWsRl	BO	199211111
34	300000.00	0.1930	PBAF1S5	fyRLFKMCuf0Db1QNGZ	da5NAxJi8AkQKyf	dOtvIPRLPK2EjTfLRsna	AN	001411111
35	300000.00	0.0688	HHrNUO	fX80nFJo59Z	mb0B4i8BdxhZDsboNE6	E4LVKvHbDCt	WC	768711111
37	300000.00	0.1713	NFmPZ4	UsgjoHV0IvY6quzwtVml	L7hn9ZiTnC6ahdfYrQ7	lysNlVLVo19PscW	OB	360711111
38	300000.00	0.0274	UohK07N	SlalWvfm6x	RSOZ6FiMBtOfny	T350PRBYsfh	WG	995211111
40	300000.00	0.1985	wayOTm	weaKyHUrcbcHvsgfX	czOKJB8CscwwJdy4zf2	w88uTgMtZ3j10	FG	385911111
(28 行)	己录)							

首先再 item 表中找到所有符合 SP 开头的 i_id,然后从 stock 表中再添加一个条件 s_quantity 要大于 95,找到符合条件的 w_id,最后根据 w_id 从 warehouse 表中找到所有符合 w_id 的信息

五、综合题:

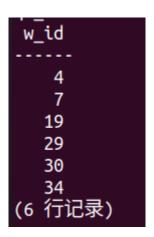
1、找到以'SP'为开头, 且在所有仓库储存的平均数量大于 50 的商品的全部信息。 select * from bmsql_item where i_id in (select s_i_id from (select s_i_id, avg(s_quantity) as avg from bmsql_stock where s_i_id in (select i_id from bmsql_item where i_name like 'SP_%') group by s_i_id) as A where avg > 50);

i_id	i_name	i_price	i_data	i_im_id
709	SP8c5nvLccolS62uA9j	9.50	M5QwLSLSVxHrGaVOaC1XXPmCpOw6Q	845
8962	SPqSz0h7gTRl3C	93.90	lEAtXYrpcYxHQqHPwy589rSMIDvBexg	2876
23093	SPInnOruPQhL0N	59.83	Y5cfUrvz6iVWndyeC8JUChNIxPNr03vxUR3W2NtzFZ1i9aa8	6918
25276	SPQjHmC8FlFj1BpsERB	68.52	x2ZXEgUvsJkzbJ3w8u1BNAs12PbKTZFZDA2iPHsOHbDf	2224
30222	SPkR1yC5VALHMIZHa	76.00	Nmn7yJ5DYPZuM5UD2L1sYh8cNlqje2PHeH26XJ9FLnjCyAz7S1	7947
36816	SPlh1QvB7wYdmNd	12.08	vfNSzZYnzUzeeUtMxscr1cbP8DnIOX1vdx2uJ	9759
38078	SPvjmg6JADoHPNGMz	99.70	ThkcSEBFBgv01nUTQPiwv6OZLUVRh63UwPyhKCzfnhCWh	1871
44907	SPoRkfHuNRxrhqyN	80.82	ApJf7onTeDyWtjeYKWIn4jATFRtaYdEU9yuF	4847
49586	SPgXx605fh5SxSc5	75.32	jmLAOTxV6gYtl3BKQ3FenmqayIf	1877
53587	SPSkvt8Navw4WeEtXa95jy3L	68.95	KhvTef2nK4WQcxD0GSVcqK5RKWU1AajeY20U4fq95	1163
55068	SPXAq4WFzsLS2SsR06K4iI	8.24	qKl3yQk9wctqd0s9uJFLG6tGSWX12HOf9K86htKtvc8	3191
55482	SPIe3kyqa0DKtYLD	99.34	lX3hBHU6obcdrZjp4jLd9NewmtMSU	5115
62449	SPqEsx7T7HWmgLMV14bFEIFT	5.39	OJP9oVAadSuzCsU3BRslpD0ZitsJ26kt2YVr6cvgVQzEhHj	4477
67755	SPrAauoAVFbikqxAJJeWX6ZR	56.93	Nwfj7ix0HtHKQ1PIyIZciuwfNY412u	1304
68375	SP7PRHWZ6VYFU0v9ij4WU	65.74	W1AklgDdtoBAskFVqAjtgq5qy9I04RF46GR48KD2q5GMqBuL	2646
69555	SPXpQf2pWvpT8VPnTA7hi6Mz	35.31	SStiuYIPnyJ3jCCSGT997lM9MtplAEd3hBQv4mgM91ee90	9880
77167	SPsgmjq0hdngSwpQIz6	92.82	OHr7e3eBWqM47nrNZXz5FKAsL2k4vaut5xT	1381
85276	SPl62MdDUs0OrLzqg	66.00	jOwIk8cyyVAfZcNwgvpj4AtvGFImLVIi	4601
88288	SPbKV7zKAgGpCzvP9	78.30	FaTnTMP85yaxZRYbtE8fWx7a2bh	5176
91947	SPbsfqfioLpVSI3	33.71	wjIWtO9Jc8lNTD2XytHBsFi56vwObJ8ZddY3qfWUgb	9103
93570	SPj6u46iZWRh5QhfWkxkvK	14.48	J604MgHtCWdPNt4tb4fkUJP4Pra45i	542
96276	SPoiEkr8gP1lexNqw32	4.52	UGmudGsdi6RO4HztbTlqkxLk2NwXr0BhC5Y8BVnx1Dm	2996
22 行记	录)			

先从 item 表中找到符合名字为 SP 开头的所有 i_id,然后从 stock 表中以 i_id 分组求 s_quantity 的平均值,再然后从这些平均值中找到符合大于 50 的 i_id,根据这些 i id,从 item 表中获取所有信息。

2、找到所有满足条件的仓库的编号(w_id):该仓库在所有地区的销售税都小于 0.15。

select w_id from bmsql_warehouse where $0.15 > all(select d_tax from bmsql_district where d_w_id = w_id);$



先从 district 表中找到 d_w_id 等于 warehouse 表中 w_id 的行的所有 d_tax 值,如何 0.15 大于这些 d_tax 值中的任何一个,则该 w_id 符合条件

3、统计五.2 中的仓库主要储备的商品数量,价格平均值,输出列为 w_id, number,

avg_price。

create table A as select s_i_id, s_w_id from bmsql_stock where s_quantity > 95 and s_w_id in (select w_id from bmsql_warehouse where $0.15 > all(select d_tax from bmsql_district where d_w_id = w_id));$

select s_w_id as w_id, count(s_i_id) as number, avg(i_price) as avg_price from bmsql_item, A where s_i_id = i_id group by w_id;

w_id	number	avg_price
29 4	5476 5550	50.1384678597516435 51.0328216216216216
34 7 19 30 (6 行记		50.9887286906057309 50.1529470986637379 50.2806489729140156 50.8498748389471747

先按照五.2 的条件创建一个表 A,然后从表 A,item 表中,按照 w_id 分组,当 i_id 相等时,得出 s_i_id 的数目和 i_price 的平均值