1、创建表：

[复制代码](javascript:void(0);)

DROP TABLE IF EXISTS `t\_areainfo`;

CREATE TABLE `t\_areainfo` (

`id` int(**11**) NOT '0' AUTO\_INCREMENT,

`level` int(**11**) DEFAULT '0',

`name` varchar(**255**) DEFAULT '0',

`parentId` int(**11**) DEFAULT '0',

`status` int(**11**) DEFAULT '0',

PRIMARY KEY (`id`)

) ENGINE=InnoDB AUTO\_INCREMENT=**65** DEFAULT CHARSET=utf8;

[复制代码](javascript:void(0);)

2、初始数据：

[复制代码](javascript:void(0);)

INSERT INTO `t\_areainfo` VALUES ('1', '0', '中国', '0', '0');

INSERT INTO `t\_areainfo` VALUES ('2', '0', '华北区', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('3', '0', '华南区', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('4', '0', '北京', '2', '0');

INSERT INTO `t\_areainfo` VALUES ('5', '0', '海淀区', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('6', '0', '丰台区', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('7', '0', '朝阳区', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('8', '0', '北京XX区1', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('9', '0', '北京XX区2', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('10', '0', '北京XX区3', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('11', '0', '北京XX区4', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('12', '0', '北京XX区5', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('13', '0', '北京XX区6', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('14', '0', '北京XX区7', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('15', '0', '北京XX区8', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('16', '0', '北京XX区9', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('17', '0', '北京XX区10', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('18', '0', '北京XX区11', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('19', '0', '北京XX区12', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('20', '0', '北京XX区13', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('21', '0', '北京XX区14', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('22', '0', '北京XX区15', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('23', '0', '北京XX区16', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('24', '0', '北京XX区17', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('25', '0', '北京XX区18', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('26', '0', '北京XX区19', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('27', '0', '北京XX区1', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('28', '0', '北京XX区2', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('29', '0', '北京XX区3', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('30', '0', '北京XX区4', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('31', '0', '北京XX区5', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('32', '0', '北京XX区6', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('33', '0', '北京XX区7', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('34', '0', '北京XX区8', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('35', '0', '北京XX区9', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('36', '0', '北京XX区10', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('37', '0', '北京XX区11', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('38', '0', '北京XX区12', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('39', '0', '北京XX区13', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('40', '0', '北京XX区14', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('41', '0', '北京XX区15', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('42', '0', '北京XX区16', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('43', '0', '北京XX区17', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('44', '0', '北京XX区18', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('45', '0', '北京XX区19', '4', '0');

INSERT INTO `t\_areainfo` VALUES ('46', '0', 'xx省1', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('47', '0', 'xx省2', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('48', '0', 'xx省3', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('49', '0', 'xx省4', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('50', '0', 'xx省5', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('51', '0', 'xx省6', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('52', '0', 'xx省7', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('53', '0', 'xx省8', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('54', '0', 'xx省9', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('55', '0', 'xx省10', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('56', '0', 'xx省11', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('57', '0', 'xx省12', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('58', '0', 'xx省13', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('59', '0', 'xx省14', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('60', '0', 'xx省15', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('61', '0', 'xx省16', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('62', '0', 'xx省17', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('63', '0', 'xx省18', '1', '0');

INSERT INTO `t\_areainfo` VALUES ('64', '0', 'xx省19', '1', '0');

[复制代码](javascript:void(0);)

**3、向下递归：**

**利用find\_in\_set()函数和group\_concat()函数实现递归查询：**

[复制代码](javascript:void(0);)

DROP FUNCTION IF EXISTS queryChildrenAreaInfo;

CREATE FUNCTION queryChildrenAreaInfo(areaId INT)

RETURNS VARCHAR(**4000**)

BEGIN

DECLARE sTemp VARCHAR(**4000**);

DECLARE sTempChd VARCHAR(**4000**);

SET sTemp='$';

SET sTempChd = CAST(areaId AS CHAR);

WHILE sTempChd IS NOT NULL DO

SET sTemp= CONCAT(sTemp,',',sTempChd);

SELECT GROUP\_CONCAT(id) INTO sTempChd FROM t\_areainfo WHERE FIND\_IN\_SET(parentId,sTempChd)>**0**;

END WHILE;

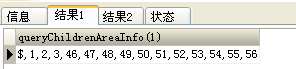
RETURN sTemp;

END;

[复制代码](javascript:void(0);)

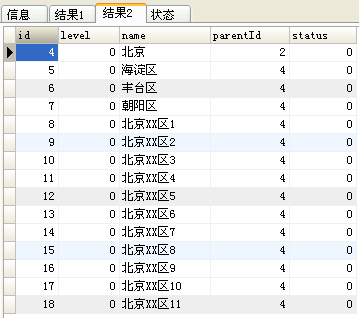
4、调用方式：

SELECT queryChildrenAreaInfo(**1**);



查询id为"4"下面的所有节点

SELECT \* FROM t\_areainfo WHERE FIND\_IN\_SET(id,queryChildrenAreaInfo(**4**));



**5、向上递归：**

[复制代码](javascript:void(0);)

DROP FUNCTION IF EXISTS queryChildrenAreaInfo1;

CREATE FUNCTION queryChildrenAreaInfo1(areaId INT)

RETURNS VARCHAR(**4000**)

BEGIN

DECLARE sTemp VARCHAR(**4000**);

DECLARE sTempChd VARCHAR(**4000**);

SET sTemp='$';

SET sTempChd = CAST(areaId AS CHAR);

SET sTemp = CONCAT(sTemp,',',sTempChd);

SELECT parentId INTO sTempChd FROM t\_areainfo WHERE id = sTempChd;

WHILE sTempChd <> **0** DO

SET sTemp = CONCAT(sTemp,',',sTempChd);

SELECT parentId INTO sTempChd FROM t\_areainfo WHERE id = sTempChd;

END WHILE;

RETURN sTemp;

END;

[复制代码](javascript:void(0);)

6、调用方式：

查询id为"7"的节点的所有上级节点：

SELECT \* from t\_areainfo where FIND\_IN\_SET(id,queryChildrenAreaInfo1(**7**));

