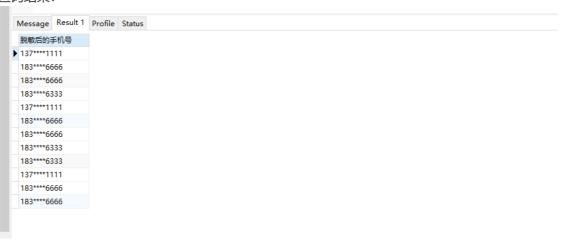
```
SET NAMES utf8mb4;
SET FOREIGN_KEY_CHECKS = 0;
-- Table structure for tb_dept
__ ____
DROP TABLE IF EXISTS `tb_dept`;
CREATE TABLE `tb_dept` (
  `dept_id` int(8) NOT NULL AUTO_INCREMENT COMMENT '部门id',
  `dept_name` varchar(50) CHARACTER SET utf8 COLLATE utf8_general_ci NOT
NULL COMMENT '部门名称',
  `dept_comment` varchar(255) CHARACTER SET utf8 COLLATE utf8_general_ci
DEFAULT '' COMMENT '职能描述',
  PRIMARY KEY (`dept_id`) USING BTREE
) ENGINE = InnoDB CHARACTER SET = utf8 COLLATE = utf8_general_ci COMMENT =
'部门表' ROW_FORMAT = Dynamic;
-- Records of tb_dept
INSERT INTO `tb_dept` VALUES (10000, '开发部', '开发部');
INSERT INTO `tb_dept` VALUES (10001, '人力资源部', '人力资源部');
INSERT INTO `tb_dept` VALUES (10002, '财政部', '财政部');
INSERT INTO `tb_dept` VALUES (10003, '风控部', '风控部');
__ _____
-- Table structure for tb_employee
__ ____
DROP TABLE IF EXISTS `tb_employee`;
CREATE TABLE `tb_employee` (
  `employee_id` int(11) NOT NULL AUTO_INCREMENT COMMENT '员工id',
  `employee_name` varchar(32) CHARACTER SET utf8 COLLATE utf8_general_ci NOT
NULL COMMENT '员工姓名',
  `employee_sex` int(11) DEFAULT 0 COMMENT '0表示未知,1表示男性,2表示女性',
  `employee_age` int(11) DEFAULT NULL COMMENT '员工年龄',
  `employee_job_name` varchar(32) CHARACTER SET utf8 COLLATE utf8_general_ci
DEFAULT NULL COMMENT '岗位名称',
  `employee_phone` varchar(11) CHARACTER SET utf8 COLLATE utf8_general_ci
DEFAULT NULL COMMENT '手机号',
  `dept_id` int(8) DEFAULT NULL,
  `dept_name` varchar(50)    CHARACTER    SET utf8    COLLATE utf8_general_ci    DEFAULT
NULL COMMENT '冗余字段, 在某些场景提高查询速率',
  PRIMARY KEY (`employee_id`) USING BTREE,
 INDEX `idx_dept_id`(`dept_id`) USING BTREE
) ENGINE = InnoDB CHARACTER SET = utf8 COLLATE = utf8_general_ci ROW_FORMAT
= Dynamic;
-- Records of tb_employee
```

```
INSERT INTO `tb_employee` VALUES (10000000, '张三', 1, 20, 'Java后台',
'13733311111', 10000, '开发部');
INSERT INTO `tb_employee` VALUES (10000001, '李四', 1, 22, 'Java后台',
'18342216666', 10000, '开发部');
INSERT INTO `tb_employee` VALUES (10000003, '王五', 1, 22, 'Java后台',
'18342216666', 10000, '开发部');
INSERT INTO `tb_employee` VALUES (10000004, '赵六', 1, 30, 'HR',
'18342216333', 10001, '人力资源');
INSERT INTO `tb_employee` VALUES (10000005, '张55', 1, 20, 'Java后台',
'13733311111', 10000, '开发部');
INSERT INTO `tb_employee` VALUES (10000006, '李九', 1, 22, 'Java后台',
'18342216666', 10000, '开发部');
INSERT INTO `tb_employee` VALUES (10000007, '王八', 1, 22, 'Java后台',
'18342216666', 10000, '开发部');
INSERT INTO `tb_employee` VALUES (10000008, '张起', 1, 30, 'HR',
'18342216333', 10001, '人力资源');
INSERT INTO `tb_employee` VALUES (10000009, '张起', 1, 50, 'HR',
'18342216333', 10001, '人力资源');
INSERT INTO `tb_employee` VALUES (10000010, '张55', 1, 20, 'Java后台',
'13733311111', 10003, '风控部');
INSERT INTO `tb_employee` VALUES (10000011, '李九', 1, 22, 'Java后台',
'18342216666', 10003, '风控部');
INSERT INTO `tb_employee` VALUES (10000012, '王八', 1, 22, 'Java后台',
'18342216666', 10002, '财政部');
SET FOREIGN_KEY_CHECKS = 1;
```

#### 2. 支持手机号数据脱敏。

```
SELECT INSERT(tb_employee.employee_phone, 4, 4, "****") AS '脱敏后的手机号'FROM tb_employee;
```

### 查询结果:



### 3. SQL 统计各部门的员工人数。

```
SELECT dept_name AS 部门名称, COUNT(employee_id) AS 部门人数 FROM tb_employee GROUP BY dept_id;
```

### 查询结果:



# 4. SQL 查询每个部门年龄最大的员工。

```
SELECT employee_name, MAX(employee_age) AS '年龄', dept_name FROM tb_employee GROUP BY dept_id;
```

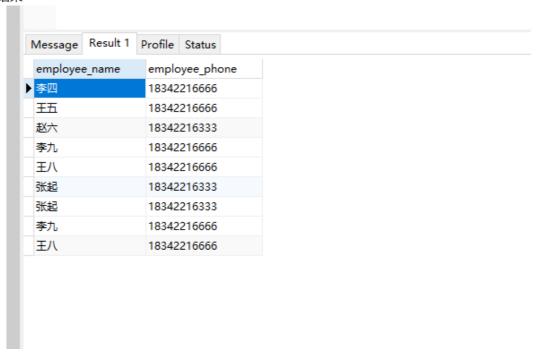
## 查询结果

	Message Result 1	Profile St	tatus
	employee_name	年龄	dept_name
Þ	张三	33	开发部
	赵六	50	人力资源
	王八	22	财政部
	张55	66	风控部

## 5. SQL 手机号模糊查询。

SELECT employee\_name, employee\_phone FROM tb\_employee WHERE employee\_phone like '%183%'

## 查询结果



PS: 如果在电话号码字段上建立了索引,第一个字符不应该使用通配符,否则会导致索引失效