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Oracle表分区实现以及查询
    范围分区
    列表分区
    散列分区
    范围-散列分区
    范围-列表分区
基础表为Oracle用户hr下的job_history
    创建分区使用的表名为hr_job_history
1.范围分区
    范围分区将数据基于指定的范围映射到不同的分区,创建表时可以同时创建分区
    当范围变大或者想让范围变得更小时,可以添加分区
 1)根据某个字段值(或者maxvalue)创建分区
        create table hr_job_history(
            employ_id number(6) not null,
            start_date date,
            end_date date,
            job id varchar2(10),
            department_id number(4)
        partition by range (employ_id)
            partition hr_job_history_part01 values less than(140),
            partition hr_job_history_part02 values less than(180),
            partition hr_job_history_part03 values less than (maxvalue)
    2)按时间划分
        create table hr_job_history(
            employ_id number(6) not null,
            start_date date,
            end date date,
            job_id varchar2(10),
            department_id number(4)
        )
        partition by range(end_date)
            partition hr_job_history_part01 values less than(to_date('2003-01-01','YYYY-MM-DD')),
            partition hr_job_history_part02 values less than(to_date('2006-08-01','YYYY-MM-DD')),
            partition hr_job_history_part03 values less than(to_date('2009-01-01','YYYY-MM-DD'))
        );
2.列表分区
    该分区的特点是某列的值只有几个,基于这样的特点我们采用列表分区
        create table hr_job_history(
            employ_id number(6) not null,
            start_date date,
            end_date date,
            job id varchar2(10),
            department_id number(4)
        )
        partition by list (department_id)
            partition hr_job_history_part01 values less than(20,50),
            partition hr_job_history_part02 values less than(60,80),
            partition hr_job_history_part03 values less than (90,110)
        );
3.散列分区
    这类分区是在列值上使用散列算法,以确定将行放入哪个分区
    当列的值没有合适的条件时,建议使用散列分区
    散列分区为通过指定分区编号来均匀分布数据的一种分区类型,
    因为通过在I/O设备上进行散列分区,使得这些分区大小一致
        create table hr_job_history(
            employ_id number(6) not null,
            start date date.
            end date date,
            job_id varchar2(10),
            department_id number(4)
        )
        partition by hash (employ_id)
            partition hr_job_history_part01,
            partition hr_job_history_part02,
            partition hr_job_history_part03
        );
4.范围-列表分区
    这种分区基于范围分区-列表分区
    表首先按照某列进行范围分区,然后再按某列进行列表分区,分区之中的分区被称为子分区
        create table hr_job_history(
            employ_id number(6) not null,
            start_date date,
            end_date date,
            job_id varchar2(10),
            department_id number(4)
        partition by rang(end_date) subpartition by list(department_id)
            partition hr_job_history_part01 values less than(to_date('2003-01-01','YYYY-MM-DD'))
                     subpartition hr_job_history_part011 values(20,50),
                     subpartition hr_job_history_part012 values(60,80),
                     subpartition hr_job_history_part013 values(90,110)
            partition hr_job_history_part02 values less than(to_date('2006-08-01','YYYY-MM-DD'))
                     subpartition hr_job_history_part021 values(20,50),
                     subpartition hr_job_history_part022 values(60,80),
                     subpartition hr_job_history_part023 values(90,110)
            partition hr job history part03 values less than(to date('2009-01-01', 'YYYY-MM-DD'))
                     subpartition hr_job_history_part031 values(20,50),
                     subpartition hr_job_history_part032 values(60,80),
                     subpartition hr_job_history_part033 values(90,110)
                )
        );
5.范围-散列分区
    这种分区是基于范围分区-散列分区
    表首先按某列进行范围分区,然后按某列进行散列分区
        create table hr_job_history(
            employ_id number(6) not null,
            start_date date,
            end_date date,
            job_id varchar2(10),
            department id number(4)
        partition by rang(end_date) subpartition by hash(employ_id)
            partition hr job history part01 values less than(to date('2003-01-01', 'YYYY-MM-DD'))
                     subpartition hr_job_history_part011,
                     subpartition hr_job_history_part012,
                     subpartition hr_job_history_part013
                ).
            partition hr_job_history_part02 values less than(to_date('2006-08-01','YYYY-MM-DD'))
                     subpartition hr_job_history_part021,
                     subpartition hr_job_history_part022,
                     subpartition hr_job_history_part023
            partition hr_job_history_part03 values less than(to_date('2009-01-01','YYYY-MM-DD'))
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subpartition hr_job_history_part031, subpartition hr_job_history_part032,