

往section中插入后触发触发器section\_insert\_check：

create triggle section\_insert\_check after insert on section

    referencing new row as nrow

    for each row

        when exists(select ID as nid

                    from nrow natural join section

                    where nid in(select id

                                 from teaches natrual join section

                                 where nrow.semester = semester

                                 and nrow.year = year

                                 and nrow.time\_slot\_id = time\_slot\_id))

        begin atomic

            rollback

        end

往section中更新后触发触发器section\_update\_check：

create triggle section\_update\_check after update on section

    referencing new row as nrow

    for each row

        when exists(select ID as nid

                    from nrow natural join section

                    where nid in(select id

                                 from teaches natrual join section

                                 where nrow.semester = semester

                                 and nrow.year = year

                                 and nrow.time\_slot\_id = time\_slot\_id))

        begin atomic

            rollback

        end

往teaches中插入后触发触发器teaches\_insert\_check：

create triggle teaches\_insert\_check after insert on teaches

    referencing new row as nrow

    for each row

        when exists (select time\_slot\_id as n\_time\_id

                     from nrow natural join section

                     where n\_time\_id in (select time\_slot\_id

                                        from teaches natrual join section

                                        where ID = nrow.ID)

        begin atomic

            rollback

        end

往teaches中更新后触发触发器teaches\_update\_check：

create triggle teaches\_update\_check after update on teaches

    referencing new row as nrow

    for each row

        when exists (select time\_slot\_id as n\_time\_id

                     from nrow natural join section

                     where n\_time\_id in (select time\_slot\_id

                                        from teaches natrual join section

                                        where ID = nrow.ID)

        begin atomic

            rollback

        end