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## **BÀI LÀM**

<u>Câu 1:</u> Cho biết thông tin các khách hàng (MaKH, TenKH, SoTien) có NgheNghiep được nhập vào từ thiết bị đầu cuối.

• Trong suốt phân đoan (fragmentation transparency)

read(terminal, \$NgheNghiep); select KH.MaKH, KH.TenKH, TKKH.SoTien into \$MaKH, \$TenKH, \$SoTien from KhachHang KH, TKKH where KH.MaKH = TKKH.MaKH and NgheNghiep = \$NgheNghiep; if #FOUND then write(terminal, \$MaKH, \$TenKH, \$SoTien) else write(terminal, 'NOT FOUND');

• Trong suốt vị trí (location transparency)

read(terminal, \$NgheNghiep); select KH.MaKH, KH.TenKH, TKKH.SoTien into \$MaKH, \$TenKH, \$SoTien from KhachHang1B KH, TKKH1 TKKH where KH.MaKH = TKKH.MaKH and NgheNghiep = \$NgheNghiep; if not #FOUND then

select KH.MaKH, KH.TenKH, TKKH.SoTien into \$MaKH, \$TenKH, \$SoTien from KhachHang2 KH, TKKH2 TKKH

where KH.MaKH = TKKH.MaKH and NgheNghiep = \$NgheNghiep; if not #FOUND then

select KH.MaKH, TenKH, SoTien into \$MaKH, \$TenKH, \$SoTien from KhachHang3A KH, TKKH3 TKKH where KH.MaKH = TKKH.MaKH and NgheNghiep = \$NgheNghiep; if #FOUND then write(terminal, \$MaKH, \$TenKH, \$SoTien) else write(terminal, 'NOT FOUND');

• Trong suốt ánh xạ địa phương (local mapping transparency)

Ta có:

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Site 1A: ChiNhanh1, TaiKhoan1, TKKH1, KhachHang1A, LoaiTaiKhoan
Site 1B: ChiNhanh1, TaiKhoan1, TKKH1, KhachHang1B, LoaiTaiKhoan
Site 3: ChiNhanh3, TaiKhoan3, TKKH3, KhachHang3A, KhachHang3B, LoaiTaiKhoan
Site 2, 4: ChiNhanh2, TaiKhoan2, TKKH2, KhachHang2, LoaiTaiKhoan
read(terminal, $NgheNghiep);
select KH.MaKH, KH.TenKH, TKKH.SoTien
into $MaKH, $TenKH, $SoTien
from KhachHang1B KH at Site 1B, TKKH1 TKKH at Site 1B
where KH.MaKH = TKKH.MaKH and NgheNghiep = $NgheNghiep;
if not #FOUND then
select KH.MaKH, KH.TenKH, TKKH.SoTien
into $MaKH, $TenKH, $SoTien
from KhachHang2 KH at Site 2, TKKH2 TKKH at Site 2
where KH.MaKH = TKKH.MaKH and NgheNghiep = $NgheNghiep;
if not #FOUND then
select KH.MaKH, TenKH, SoTien
into $MaKH, $TenKH, $SoTien
from KhachHang3A KH at Site 3, TKKH3 TKKH at Site 3
where KH.MaKH = TKKH.MaKH and NgheNghiep = $NgheNghiep;
if #FOUND then write(terminal, $MaKH, $TenKH, $SoTien)
else write(terminal, 'NOT FOUND');
Câu 2: Nhập vào mã khách hàng (MaKH), kiểm tra xem nếu khách hàng không thuộc
chi nhánh tại Hà Nội thì: Viết câu truy vấn chuyển đổi toàn bộ thông tin khách hàng
này ra chi nhánh Hà Nội.
   • Trong suốt phân đoạn (fragmentation transparency)
read (terminal, $MaKH));
select MaCN into $MaCN
from ChiNhanh
where ThanhPho = 'HN';
if #FOUND then
begin
      select TenKH, NgaySinh, DiaChi, NgheNghiep, NoiCongTac, DienThoai, CMND
      into $TenKH, $NgaySinh, $DiaChi, $NgheNghiep, $NoiCongTac, $DienThoai, $CMND
      from KhachHang
      where MaKH = MaKH and MaCN = MaCN;
      if not #FOUND
      begin
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update KhachHang set MaCN = \$MaCN where MaKH = \$MaKH;

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end:
end;
     Trong suốt vị trí (location transparency)
read (terminal, $MaKH);
select TenKH, DiaChi, CMND into $TenKH, $DiaChi, $CMND
from KhachHang1A
where MaKH = MaKH:
if #FOUND then
begin
      select NgaySinh, NgheNghiep, NoiCongTac, DienThoai
      into $NgaySinh, $NgheNghiep, $NoiCongTac, $DienThoai
      from KhachHang1B
      where MaKH = MaKH;
      insert into KhachHang3A(MaKH, TenKH, NgaySinh, DiaChi, NgheNghiep, NoiCongTac)
      values ($MaKH, $TenKH, $NgaySinh, $DiaChi, $NgheNghiep, $NoiCongTac);
      insert into KhachHang3B(MaKH, TenKH, DienThoai, CMND)
      values ($MaKH, $TenKH, $DienThoai, $CMND);
      delete from KhachHang1A where MaKH = $MaKH;
      delete from KhachHang1B where MaKH = $MaKH;
end
else
begin
      select TenKH, NgaySinh, DiaChi, NgheNghiep, NoiCongTac, DienThoai, CMND
      into $TenKH, $NgaySinh, $DiaChi, $NgheNghiep, $NoiCongTac, $DienThoai, $CMND
      from KhachHang2
      where MaKH = MaKH:
      if #FOUND then
      begin
            insert into KhachHang3A (MaKH, TenKH, NgaySinh, DiaChi, NgheNghiep,
NoiCongTac)
            values ($MaKH, $TenKH, $NgaySinh, $DiaChi, $NgheNghiep, $NoiCongTac);
            insert into KhachHang3B(MaKH, TenKH, DienThoai, CMND)
            values ($MaKH, $TenKH, $DienThoai, $CMND);
            delete from KhachHang2 where MaKH = $MaKH;
      end;
end;
      Trong suốt ánh xạ địa phương (local mapping transparency)
read (terminal, $MaKH);
select TenKH, DiaChi, CMND into $TenKH, $DiaChi, $CMND
from KhachHang1A at Site 1A
where MaKH = $MaKH;
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if #FOUND then

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begin
      select NgaySinh, NgheNghiep, NoiCongTac, DienThoai
      into $NgaySinh, $NgheNghiep, $NoiCongTac, $DienThoai
      from KhachHang1B at Site 1B
      where MaKH = MaKH;
      insert into KhachHang3A(MaKH, TenKH, NgaySinh, DiaChi, NgheNghiep, NoiCongTac)
at Site 3
      values ($MaKH, $TenKH, $NgaySinh, $DiaChi, $NgheNghiep, $NoiCongTac);
      insert into KhachHang3B(MaKH, TenKH, DienThoai, CMND) at Site 3
      values ($MaKH, $TenKH, $DienThoai, $CMND);
      delete KhachHang1A at Site 1A where MaKH = $MaKH;
      delete KhachHang1B at Site 1B where MaKH = $MaKH;
end
select TenKH, NgaySinh, DiaChi, NgheNghiep, NoiCongTac, DienThoai, CMND
into $TenKH, $NgaySinh, $DiaChi, $NgheNghiep, $NoiCongTac, $DienThoai, $CMND
from KhachHang2 at Site 2
where MaKH = MaKH;
if #FOUND then
begin
      insert into KhachHang3A(MaKH, TenKH, NgaySinh, DiaChi, NgheNghiep, NoiCongTac)
at Site 3
      values ($MaKH, $TenKH, $NgaySinh, $DiaChi, $NgheNghiep, $NoiCongTac);
      insert into KhachHang3B(MaKH, TenKH, DienThoai, CMND) at Site 3
      values ($MaKH, $TenKH, $DienThoai, $CMND);
      delete from KhachHang2 at Site 2 where MaKH = $MaKH;
      delete from KhachHang2 at Site 4 where MaKH = $MaKH;
end:
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