Bài 1:

1. $\sigma_{PHG = 4}(NHANVIEN)$
2. $\sigma_{LUONG > 30000}(NHANVIEN)$
3. $\sigma_{(LUONG > 25000) \wedge (PHG = 4)}(NHANVIEN) \cup \sigma_{(LUONG > 30000) \wedge (PHG = 5)}(NHANVIEN)$
4. $\pi_{HONV, TENLOT, TENNV}(\sigma_{DCHI = 'TP.CHM'}(NHANVIEN))$
5. $\pi_{HONV, TENLOT, TENNV}(\sigma_{HONV\ LIKE\ 'N\%'}(NHANVIEN))$
6. $\pi_{NGSINH, DCHI}(\sigma_{(HONV = 'Dinh') \wedge (TENLOT = 'Ba') \wedge (TENNV = 'Tien')}(NHANVIEN))$
7. $R1 \leftarrow PHONGBAN \blacktriangleright\blacktriangleleft DIADIEM\_PHG$
   $\pi_{TENPHG, DIADIEM}(R1)$
8. $R1 \leftarrow PHONGBAN \blacktriangleright\blacktriangleleft_{TRPHG = MANV} NHANVIEN$
   $\pi_{TENNV}(R1)$
9. $R1 \leftarrow PHONGBAN \blacktriangleright\blacktriangleleft_{MAPHG = PHG} NHANVIEN$
   $\pi_{TENNV, DCHI}(\sigma_{TENPHG = 'Nghiên\ cứu'}(R1))$
10. $R1 \leftarrow \pi_{TENDA, TENPHG, TRPHG, NG\_NHANCHUC}(PHONGBAN \blacktriangleright\blacktriangleleft_{MAPHG = PHONG} DEAN)$
    $R2 \leftarrow R1 \blacktriangleright\blacktriangleleft_{TRPHG = MANV} NHANVIEN$
    $\pi_{TENDA, TENPHG, NG\_NHANCHUC, HONV, TENNV}(R2)$
11. $R1_{GIOITINH, TENTN, MA\_NVIEN} \leftarrow \pi_{PHAI, TENTN, MA\_NVIEN}(THANNHAN)$
    $R2 \leftarrow NHANVIEN \blacktriangleright\blacktriangleleft_{MANV = MA\_NVIEN} R1$
    $\pi_{TENNV, TENTN}(\sigma_{PHAI = 'Nữ'}(R2))$
12.
13.
14.
15.

Bài 2:

1. $R1 \leftarrow KHANANG \blacktriangleright\blacktriangleleft NHANVIEN$
   $\pi_{MANV, TEN, DCHI, DTHOAI}(\sigma_{MALOAI = 'B747'}(R1))$
2. $R1 \leftarrow PHANCONG \blacktriangleright\blacktriangleleft CHUYENBAY$
   $R2 \leftarrow \pi_{MANV}(\sigma_{SBDI = 'SLC' \wedge MACB = 10}(R1))$
   $\pi_{TEN}(R2 \blacktriangleright\blacktriangleleft NHANVIEN)$
3. $R1 \leftarrow LICHBAY \blacktriangleright\blacktriangleleft CHUYENBAY$
   $\pi_{MALOAI, SOHIEU}(\sigma_{SBDI = 'MIA'}(R1))$
4. $R1 \leftarrow KHACHHANG \blacktriangleright\blacktriangleleft DATCHO$
   $\pi_{MACB, NGAYDI, TEN, DCHI, DTHOAI}(\sigma_{SBDI = 'MIA'}(R1))$

5 . R1 ← PHANCONG ►◄NHANVIEN

R2 <- R1 ►◄ CHUYENBAY

$\pi_{MACB, NGAYDI, TEN, DCHI, DTHOAI}(R2)$

6 . R1 <-$\pi_{MACB}(\sigma_{SBDEN='ORD'}(CHUYENBAY))$

R2 <- $\pi_{MANV,MACB}$ (R1►◄PHANCONG)

R3 <- (R2►◄NHANVIEN)

$\pi_{TEN, MACB,NGAYDI, MANV, TEN}(R3)$

7 .