```
σ - select - choose tuples□ - join -■ - project - choose attributes
```

Suppose we have the following 4 relations:

```
HOTEL (hotel_no, hotel_name, hotel_city)
ROOM (room_no, hotel_no, room_type, room_price)
BOOKING (hotel_no, guest_no, bdate_from, bdate_to, room_no)
GUEST (guest_no, guest_name, guest_address)
```

1. List the number and name for all hotels

ans1 = π hotel no, hotel name HOTEL

2. List all single rooms with a price below \$50

ans2 = σ room_price<50 & room_type = 'single' ROOM

3. List the numbers and names of all hotels in Melbourne

```
X3 = \sigma hotel_city = 'Melbourne' HOTEL ans 3 = \pi hotel_no, hotel_name X3
```

Or

ans3= π hotel_no, hotel_name(σ hotel_city = 'Melbourne' HOTEL)

4. List all numbers and names of hotels which have a presidential suite room

```
X4a = \sigma room_type = 'presidential suite'
X4b = \pi hotel_no X4a
X4c = X4b \bowtie (\pi hotel_no,hotel_name HOTEL)
```