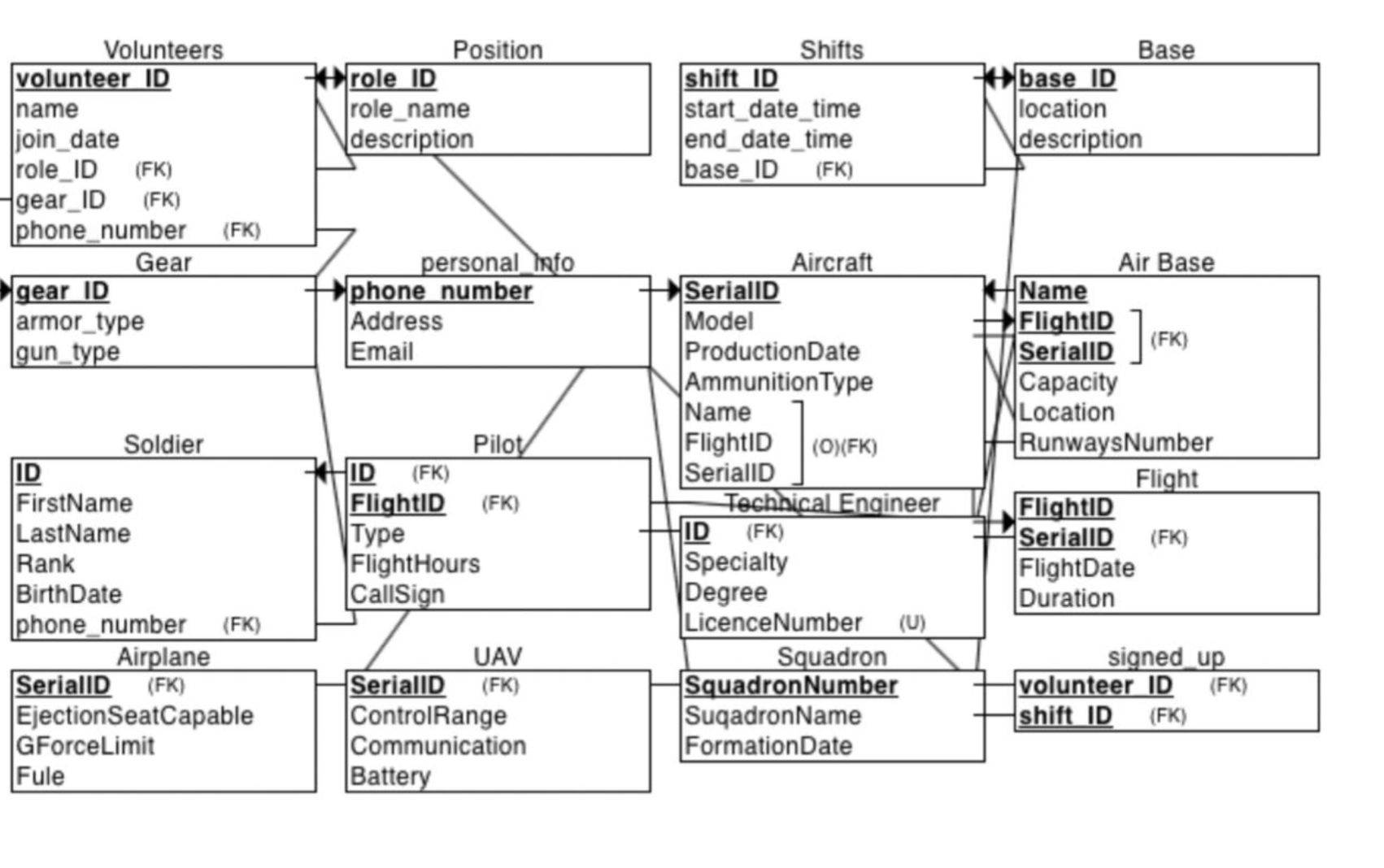
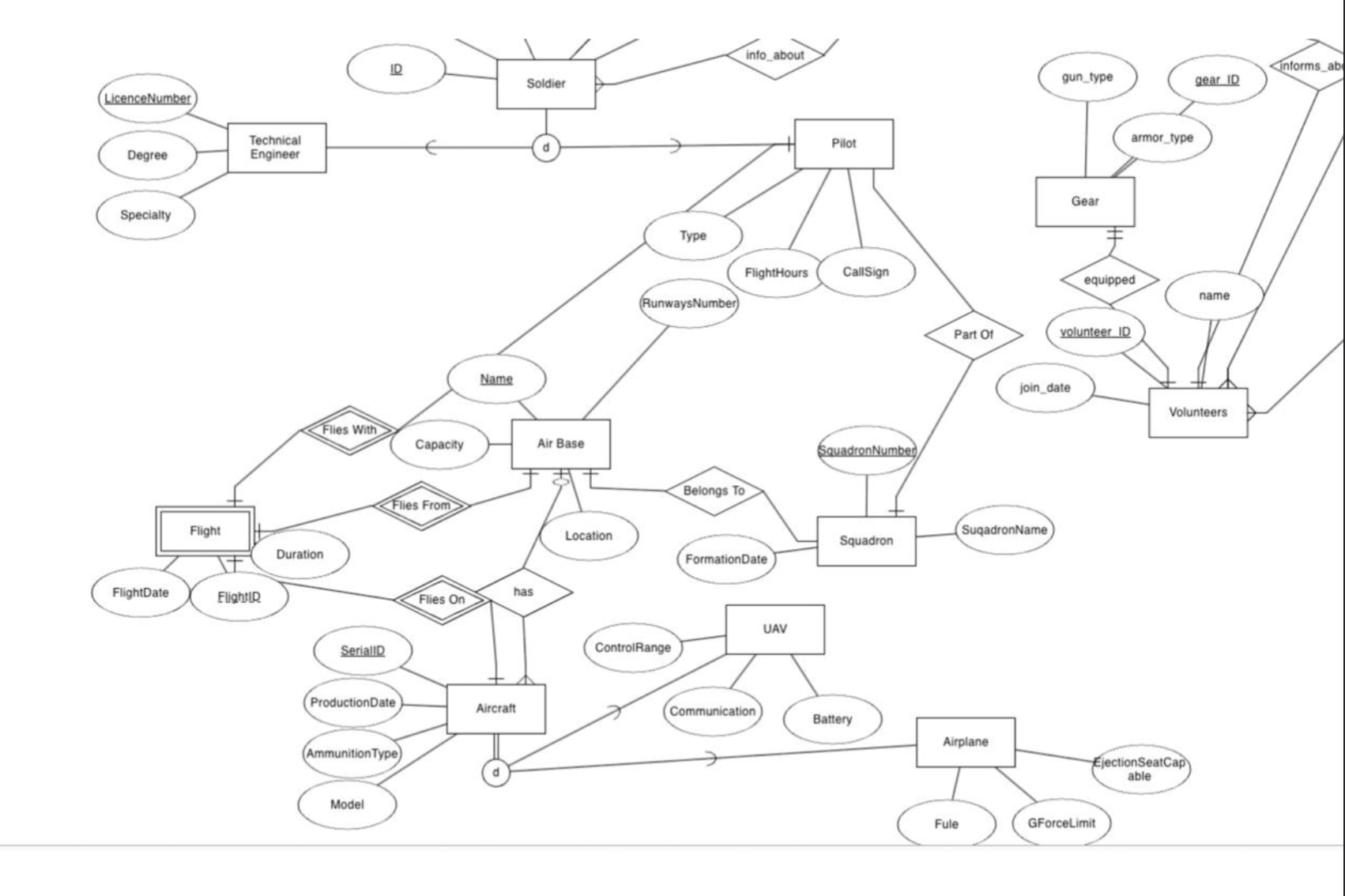
# Mini database level 4

## 



# 

Combined



# 

# SQL Views and Queries Report

Integration:

We wanted to add the connection between personal info and soldier because we believe it adds much benefit to the data-base, we chose the connection to be many too one because 2 soldiers or more

# Different view for every wing:

# 1. SOLDIER\_VIEW

This view selects all soldiers' basic information from the SOLDIER table.

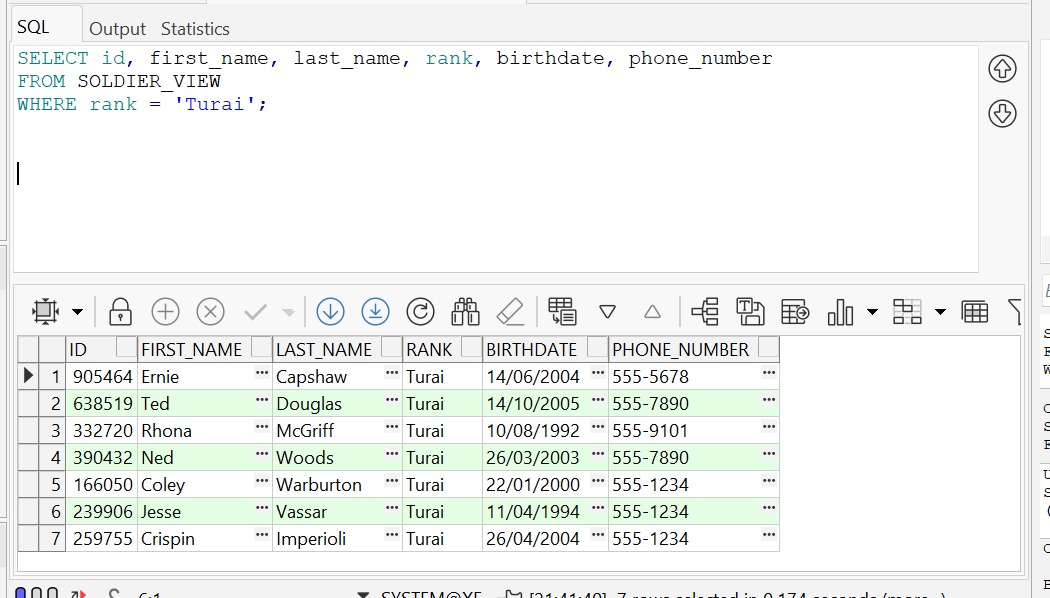
## View Definition:

CREATE OR REPLACE VIEW SOLDIER\_VIEW AS  
SELECT id, first\_name, last\_name, rank, birthdate, phone\_number  
FROM SOLDIER;

## Example Queries:

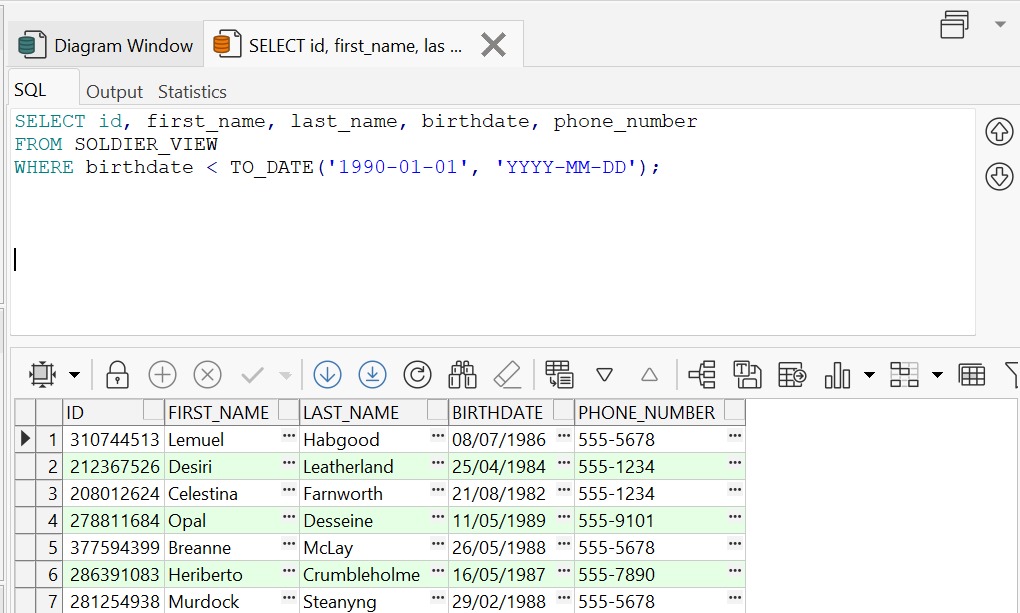
#### Query 1:

Retrieve all soldiers with the rank 'Turai':

SELECT id, first\_name, last\_name, rank, birthdate, phone\_number  
FROM SOLDIER\_VIEW  
WHERE rank = 'Turai';  


## Query 2:

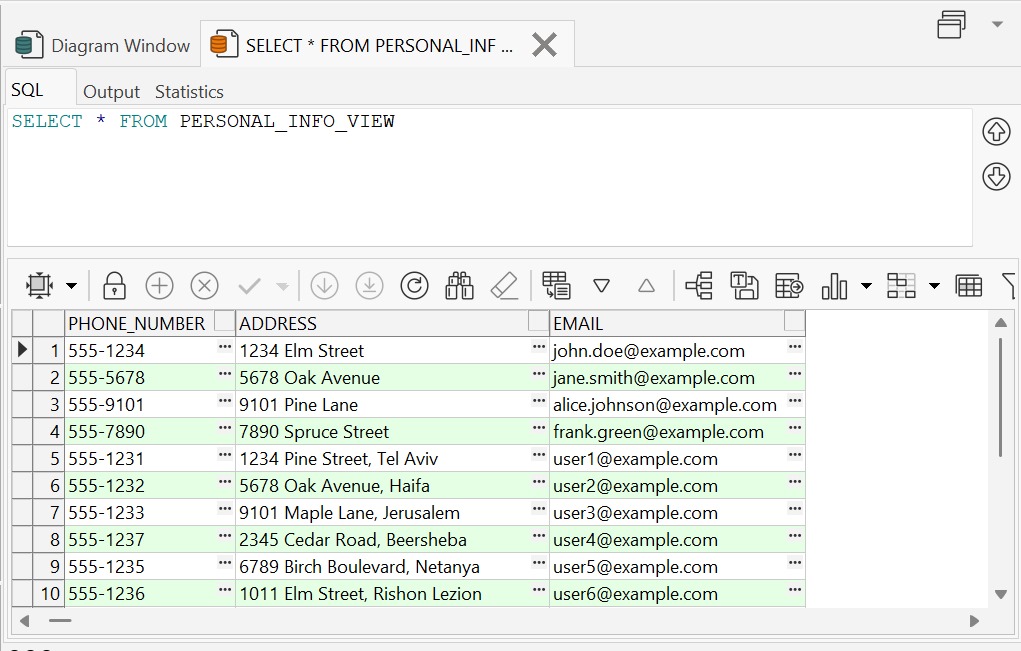
Retrieve all soldiers born before January 1, 1990:

SELECT id, first\_name, last\_name, birthdate, phone\_number  
FROM SOLDIER\_VIEW  
WHERE birthdate < TO\_DATE('1990-01-01', 'YYYY-MM-DD');  


# 2. PERSONAL\_INFO\_VIEW

This view selects contact information from the PERSONAL\_INFO table.

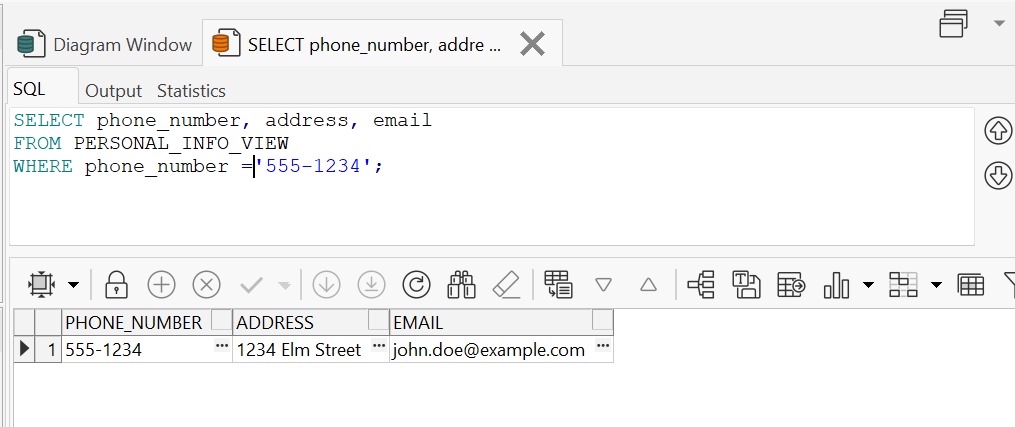
## View Definition:

CREATE OR REPLACE VIEW PERSONAL\_INFO\_VIEW AS  
SELECT phone\_number, address, email  
FROM PERSONAL\_INFO;  


## Example Queries:

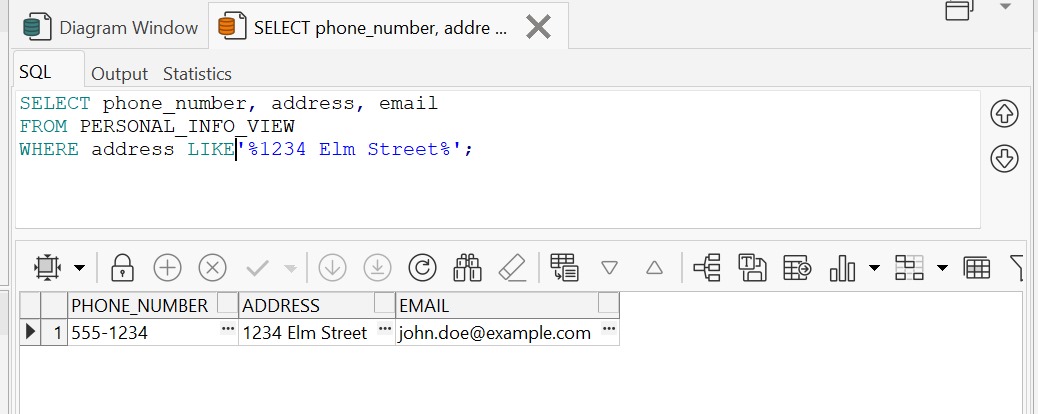
#### Query 1:

Retrieve contact details for a specific phone number:

SELECT phone\_number, address, email  
FROM PERSONAL\_INFO\_VIEW  
WHERE phone\_number = '555-1234';  


## Query 2:

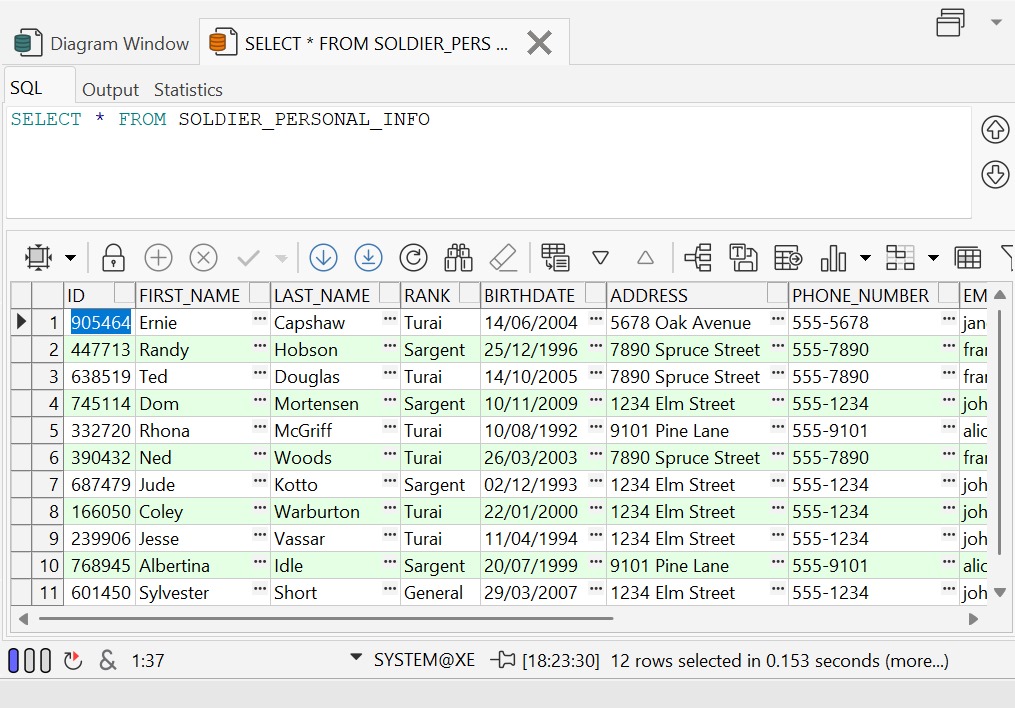
Retrieve contact details for addresses containing 'תל אביב':

SELECT phone\_number, address, email  
FROM PERSONAL\_INFO\_VIEW  
WHERE address LIKE '%1234 Elm Street%';  
  
**Mixed views:**

# 3. SOLDIER\_PERSONAL\_INFO

This view joins the SOLDIER and PERSONAL\_INFO tables on phone\_number to combine soldier information with their personal contact details.

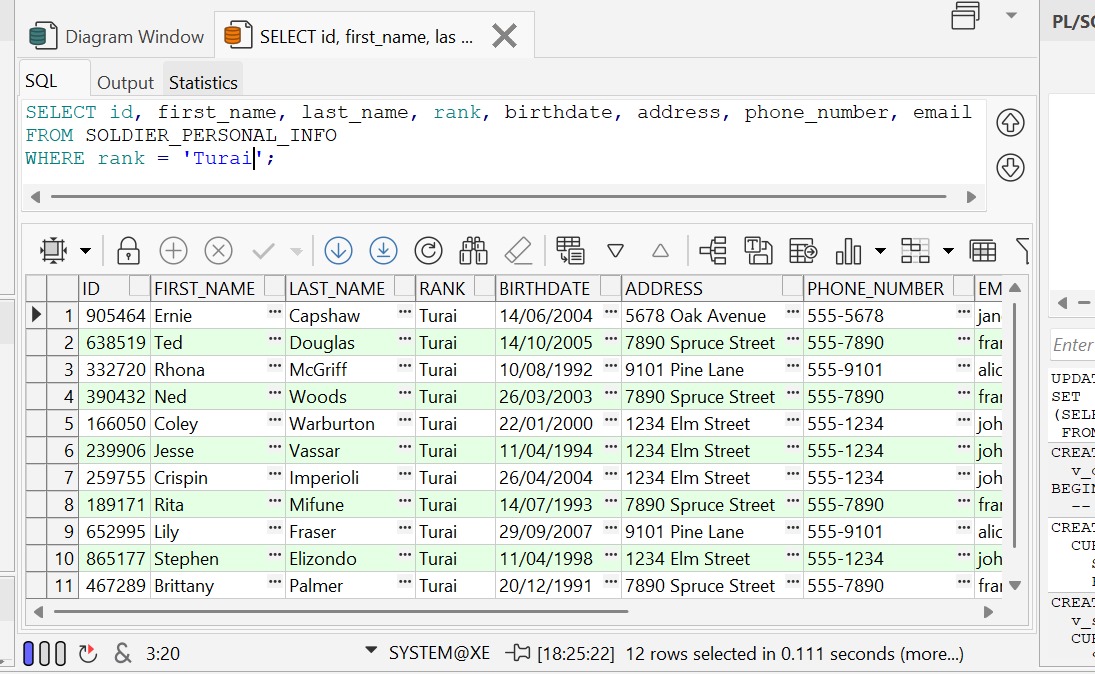
## View Definition:

CREATE OR REPLACE VIEW SOLDIER\_PERSONAL\_INFO AS  
SELECT s.id, s.first\_name, s.last\_name, s.rank, s.birthdate, p.address, p.phone\_number, p.email  
FROM SOLDIER s  
LEFT JOIN PERSONAL\_INFO p ON s.phone\_number = p.phone\_number;  


## Example Queries:

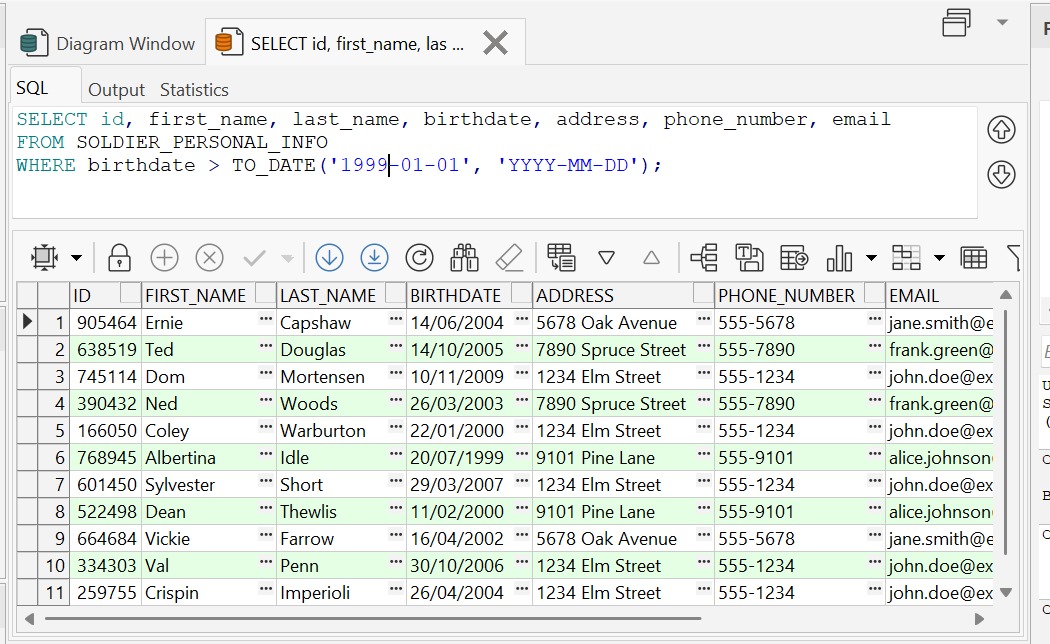
#### Query 1:

Retrieve all 'Turai' soldiers with their personal information:

SELECT id, first\_name, last\_name, rank, birthdate, address, phone\_number, email  
FROM SOLDIER\_PERSONAL\_INFO  
WHERE rank = 'Turai';  


## Query 2:

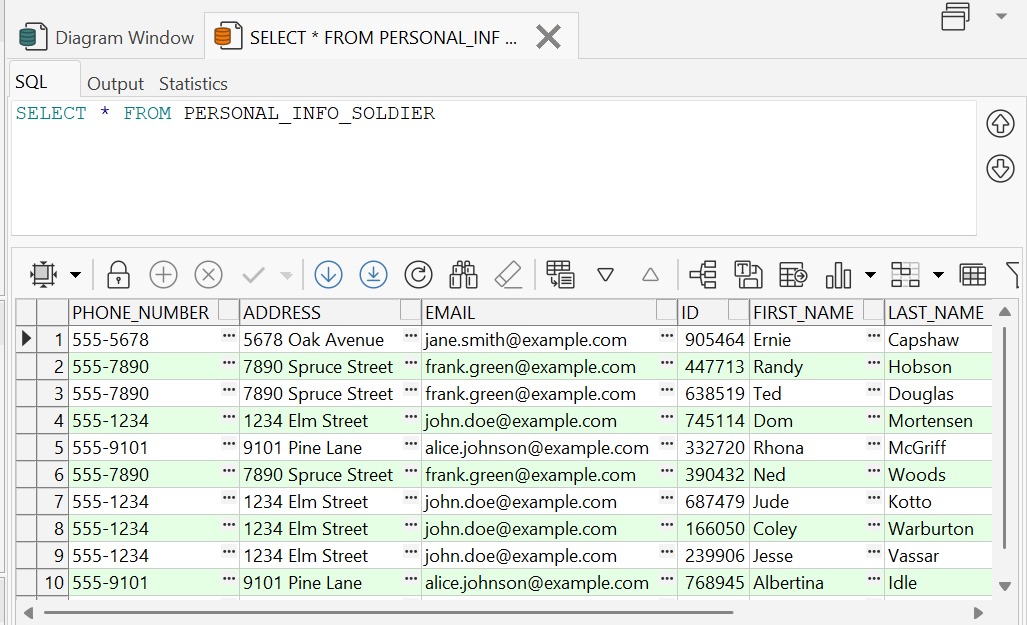
Retrieve soldiers born after January 1, 1999, with their personal information:

SELECT id, first\_name, last\_name, birthdate, address, phone\_number, email  
FROM SOLDIER\_PERSONAL\_INFO  
WHERE birthdate > TO\_DATE('1999-01-01', 'YYYY-MM-DD');  


# 4. PERSONAL\_INFO\_SOLDIER

This view joins the PERSONAL\_INFO and SOLDIER tables on phone\_number to combine personal contact details with soldier information.

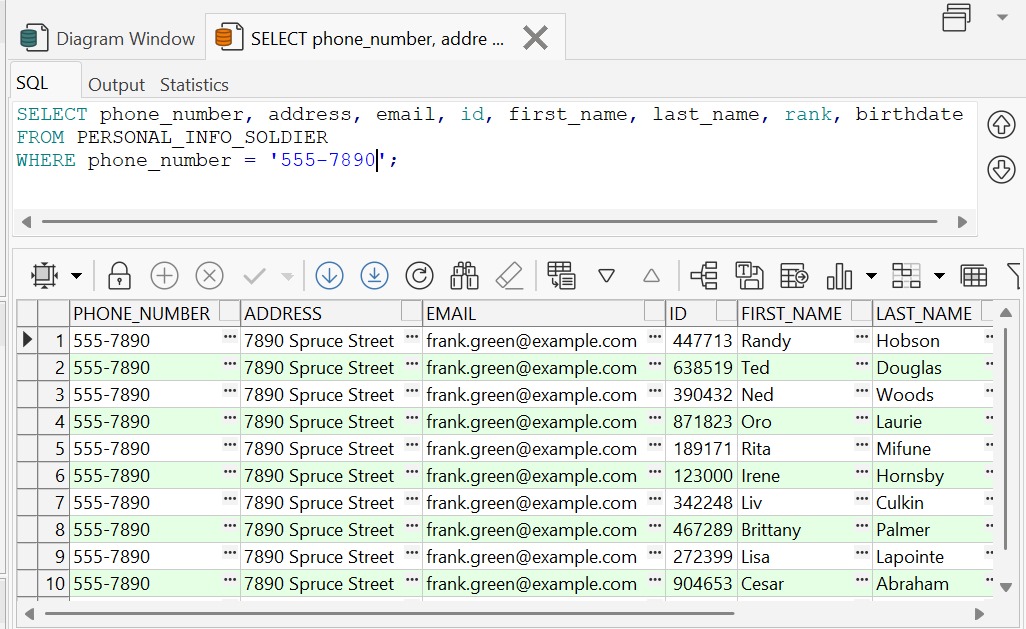
## View Definition:

CREATE OR REPLACE VIEW PERSONAL\_INFO\_SOLDIER AS  
SELECT p.phone\_number, p.address, p.email, s.id, s.first\_name, s.last\_name, s.rank, s.birthdate  
FROM PERSONAL\_INFO p  
LEFT JOIN SOLDIER s ON p.phone\_number = s.phone\_number;  


## Example Queries:

#### Query 1:

Retrieve soldier information for a specific phone number:

SELECT phone\_number, address, email, id, first\_name, last\_name, rank, birthdate  
FROM PERSONAL\_INFO\_SOLDIER  
WHERE phone\_number = '555-7890';  


#### Query 2:

Retrieve soldiers living at a specific address:

SELECT phone\_number, address, email, id, first\_name, last\_name, rank, birthdate  
FROM PERSONAL\_INFO\_SOLDIER  
WHERE address LIKE '%7890 Spruce Street%';  
