Assignment 1

Aruzhan Boranbay

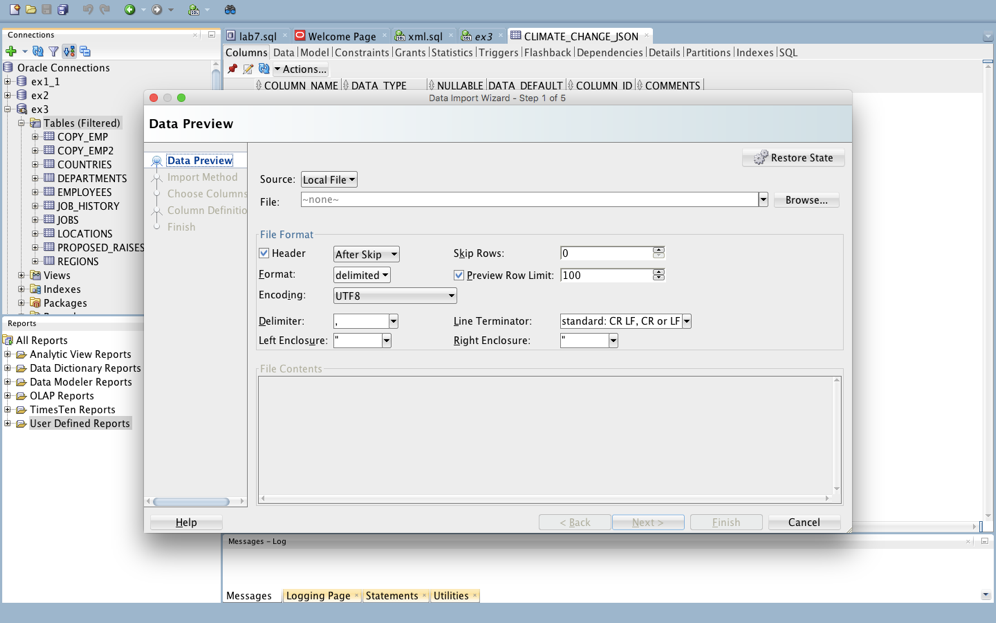
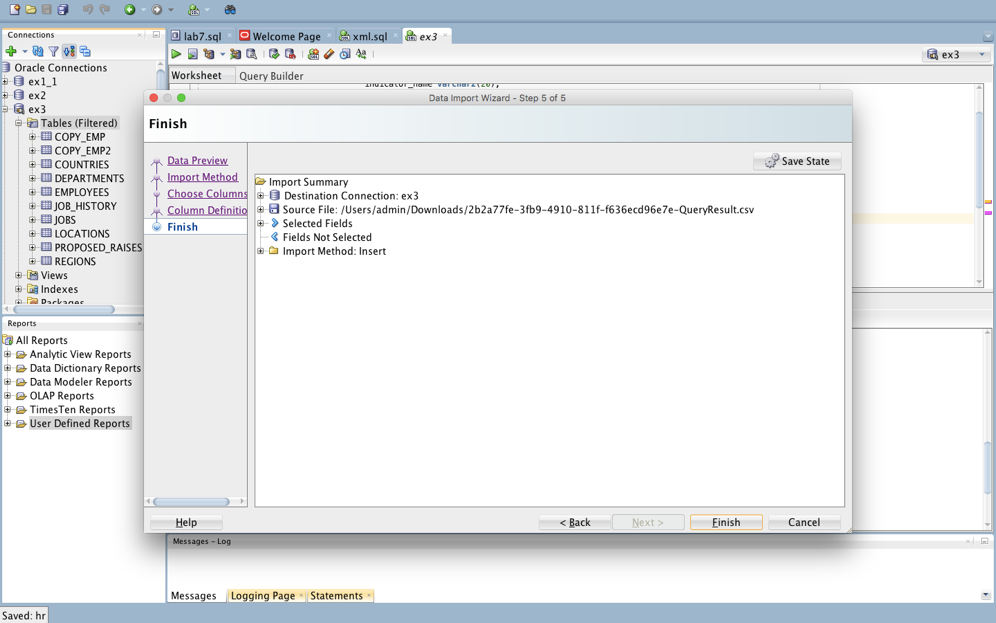
15N – 20P

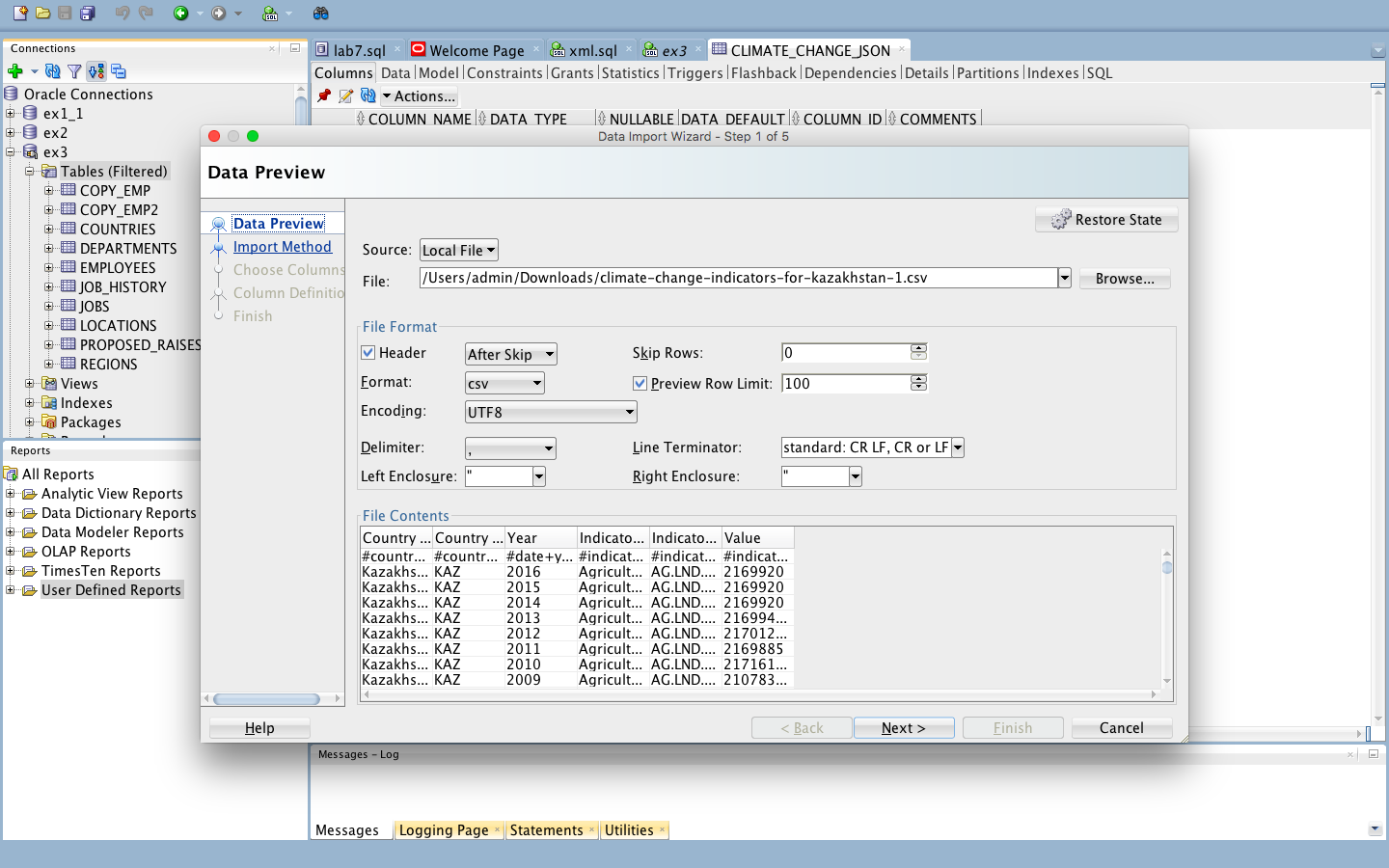
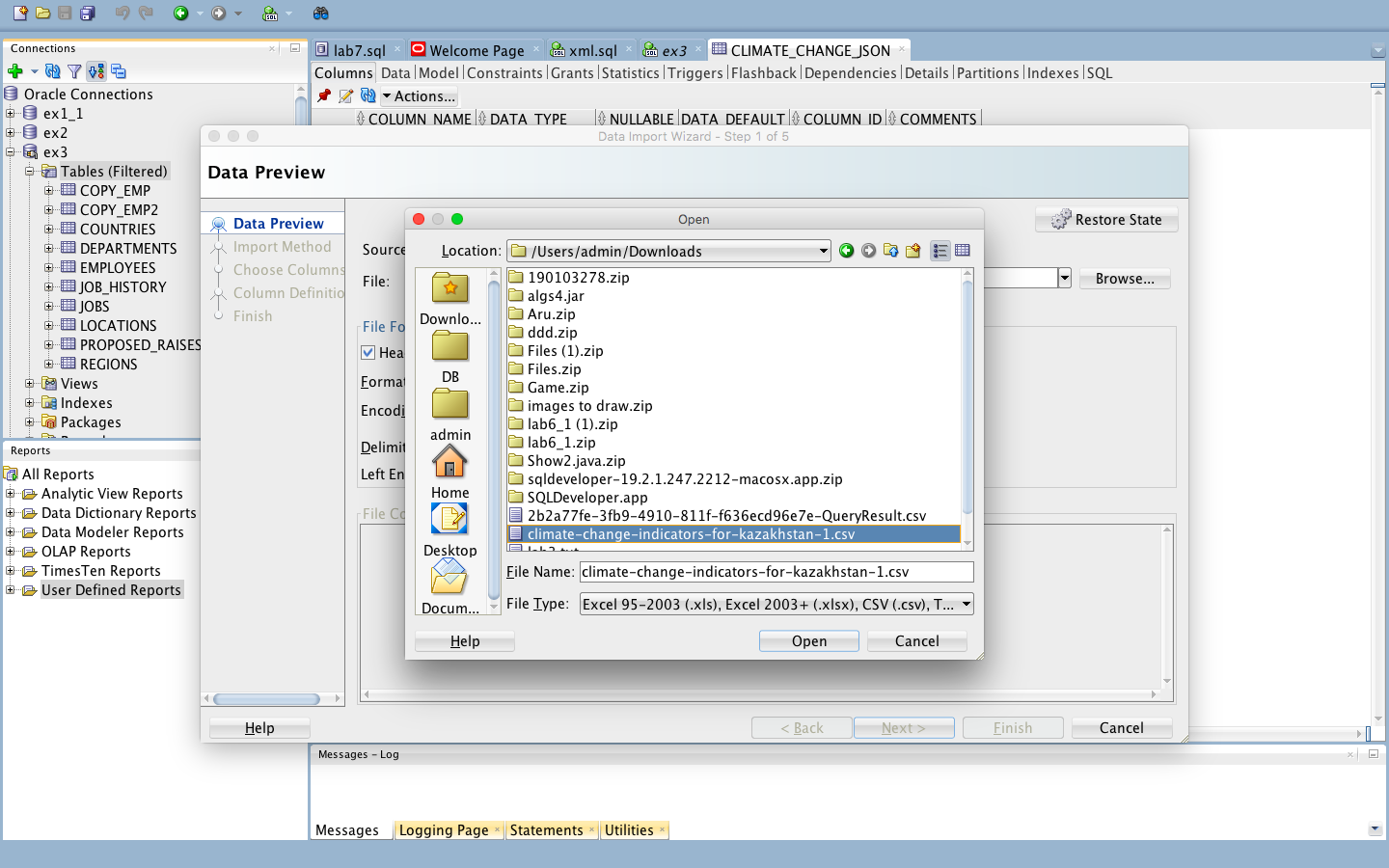
1. <https://data.world/hdx/2b2a77fe-3fb9-4910-811f-f636ecd96e7e/workspace/query?filename=climate-change-indicators-for-kazakhstan-1.csv&newQueryType=SQL&selectedTable=climate_change_indicators_for_kazakhstan_1&tempId=1615622030412>

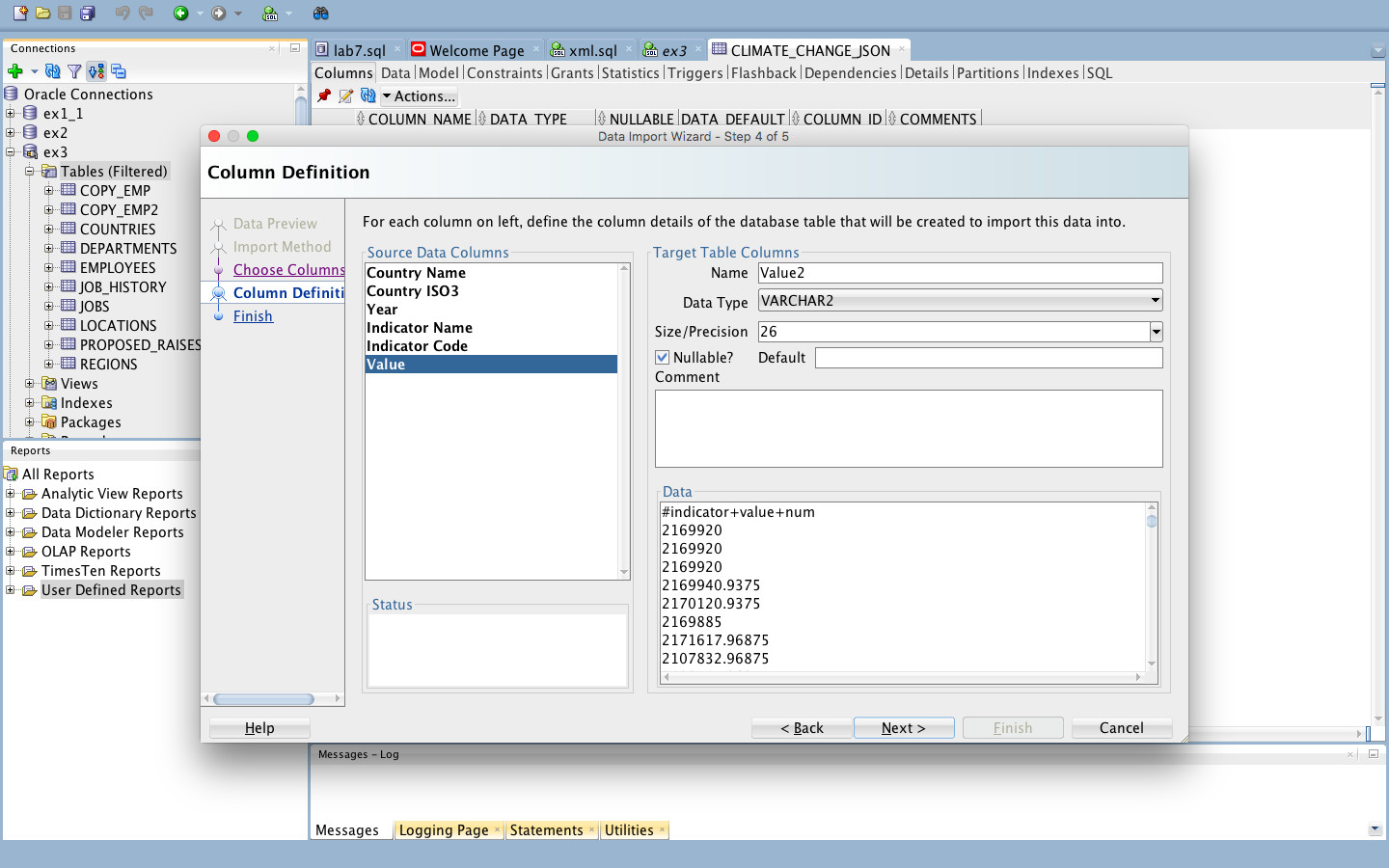
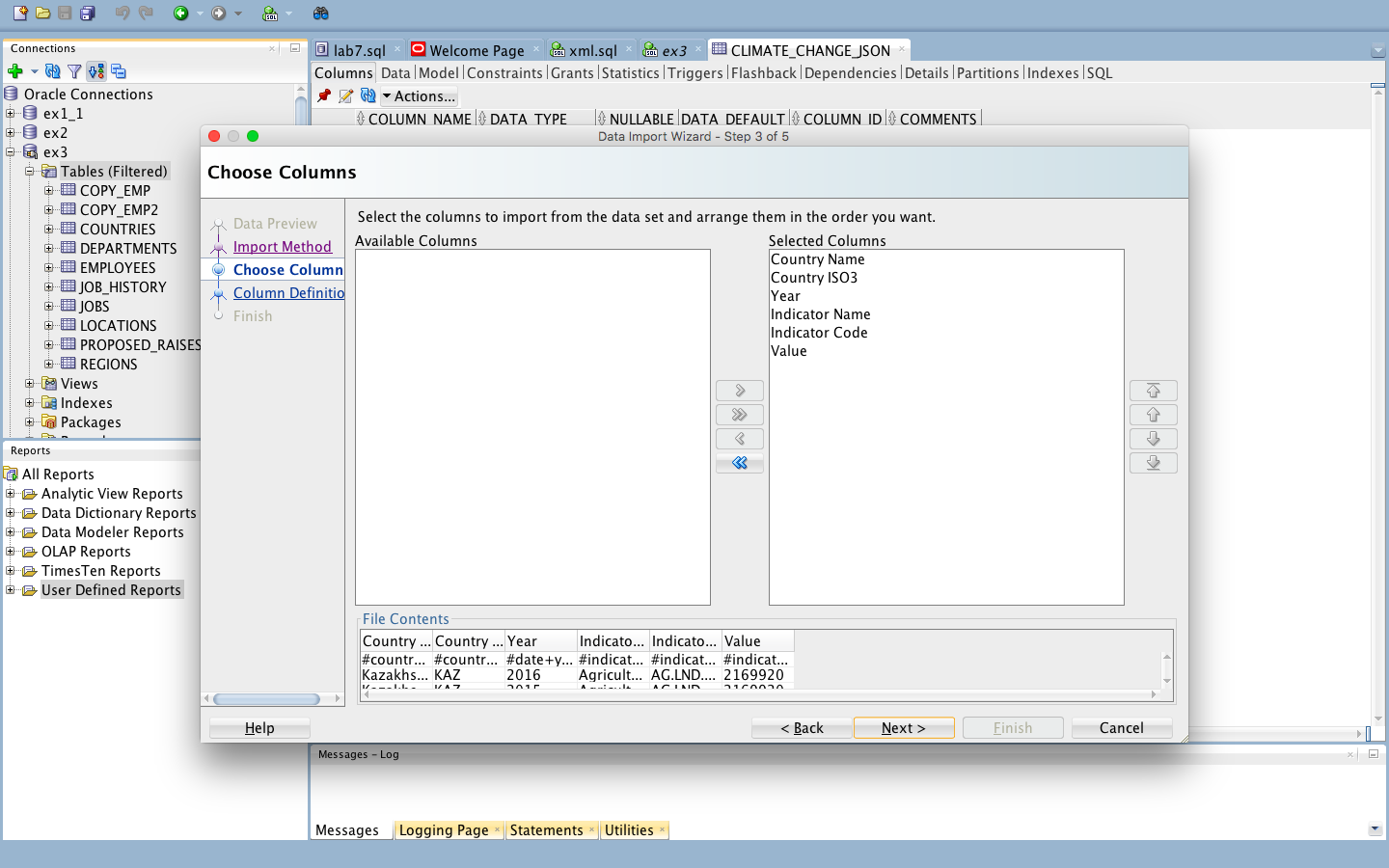
**SELECT \* FROM climate\_change\_indicators\_for\_kazakhstan\_1**

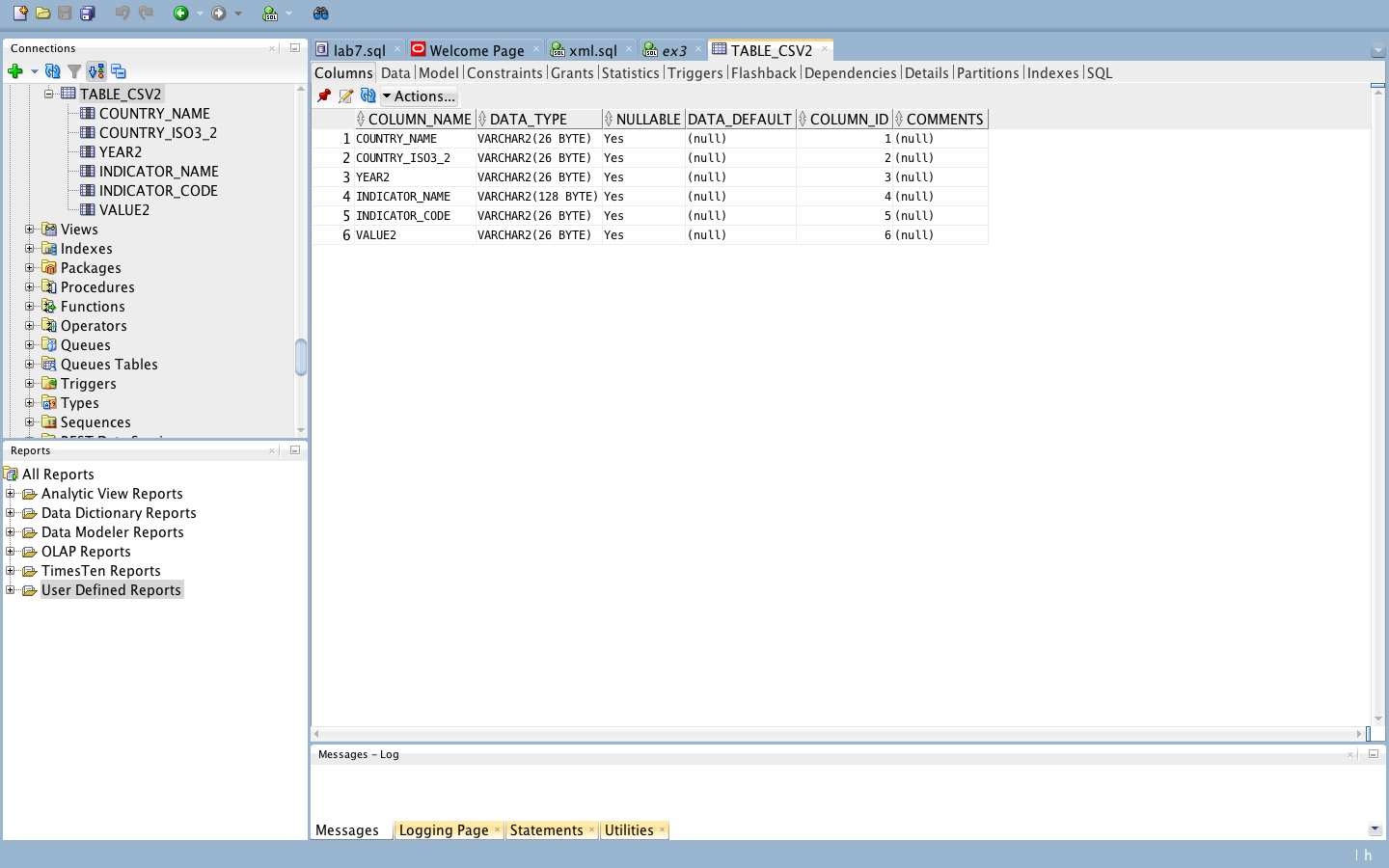
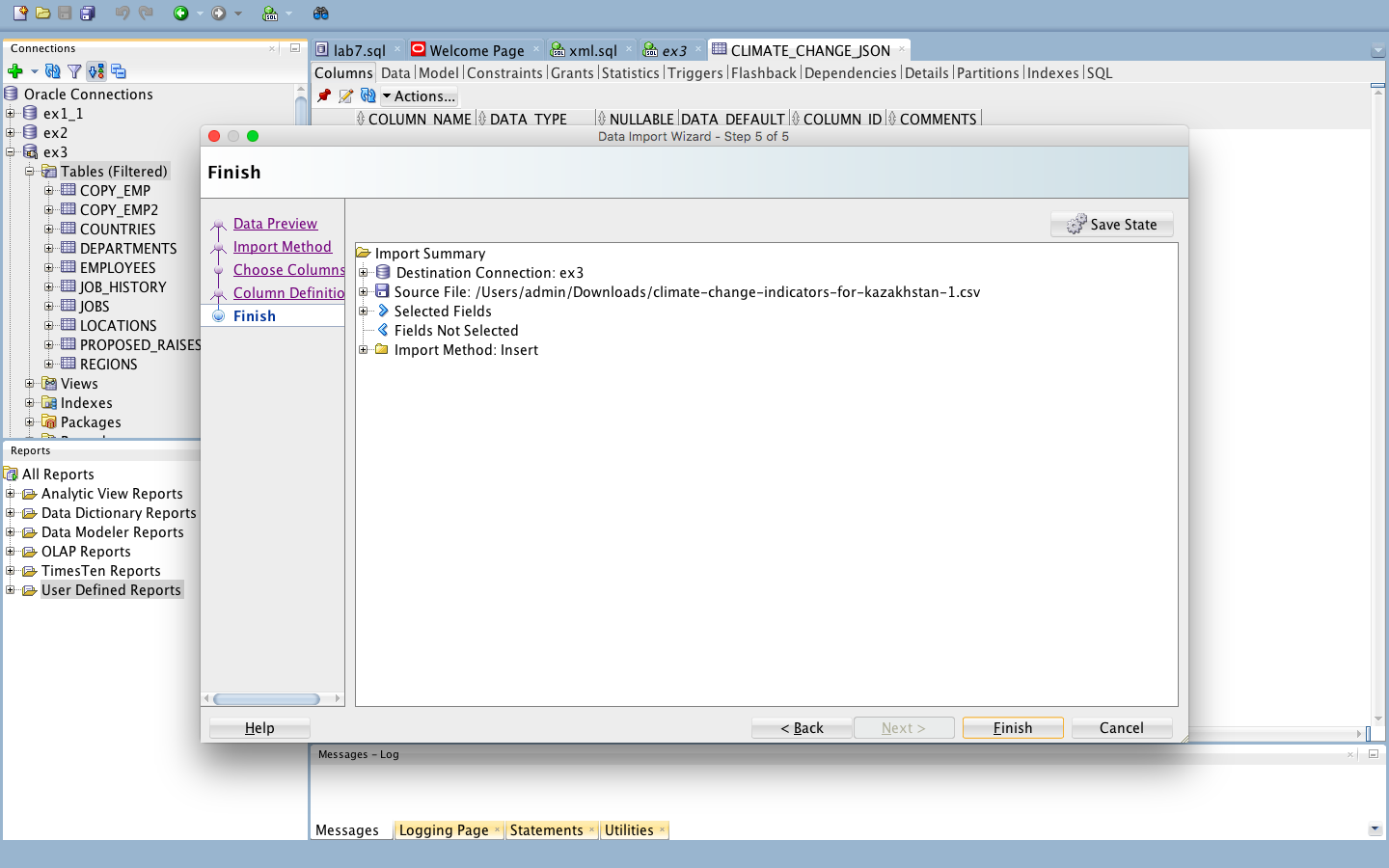
**LIMIT 120;**

1. .csv

­­­­







.json

DECLARE @JSON VARCHAR(max)

SELECT @JSON = BulkColumn

FROM OPENROWSET (BULK '/Users/admin/Downloads/2b2a77fe-3fb9-4910-811f-f636ecd96e7e-QueryResult.json',SINGLE\_BLOB)

import

SELECT \* INTO table\_csv2

FROM OPENJSON(@JSON)

WITH

(

[COUNTRY\_NAME] varchar(20),

[COUNTRY\_ISO3] varchar(20),

[YEAR] number,

[INDICATOR\_NAME] varchar(128),

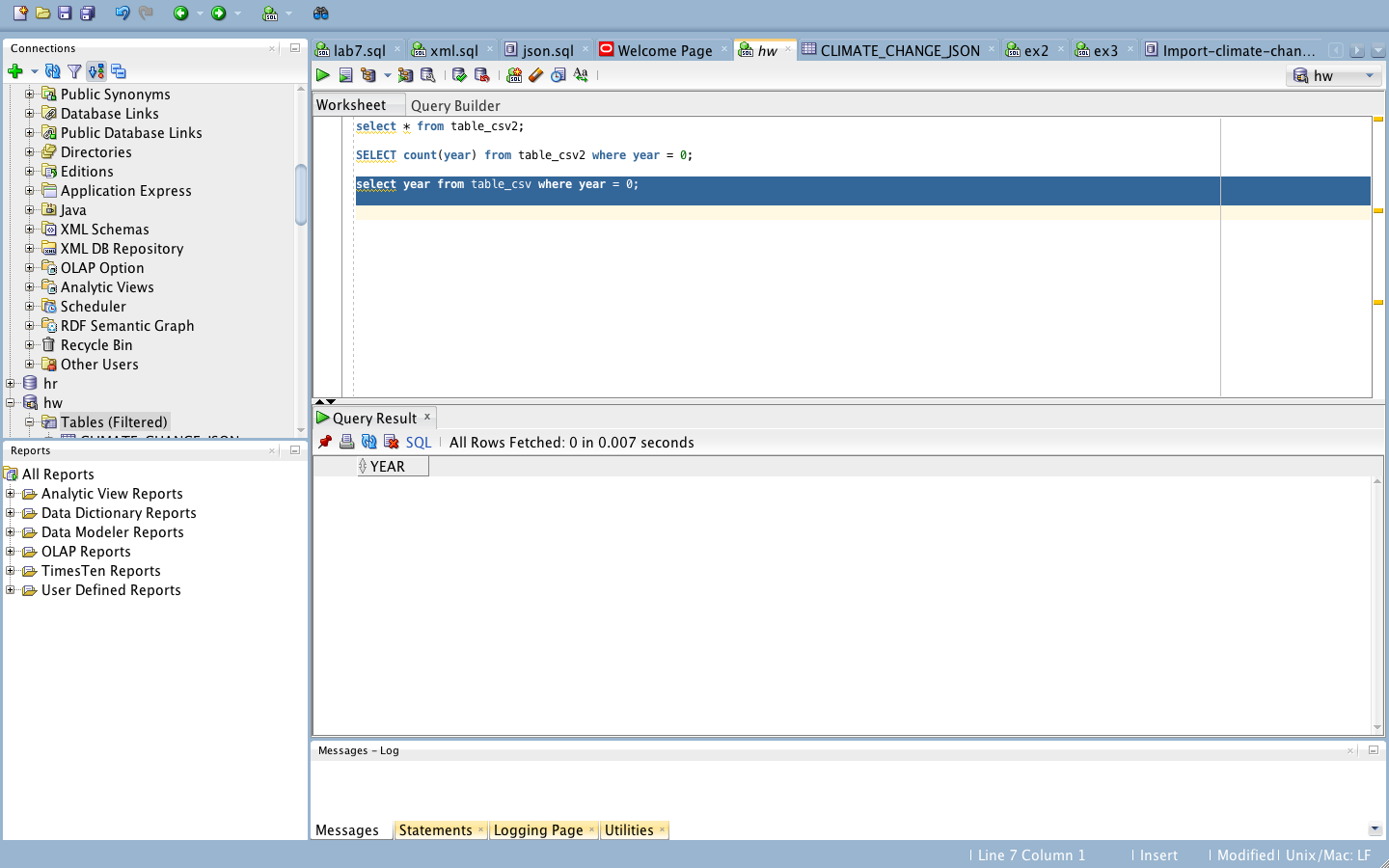
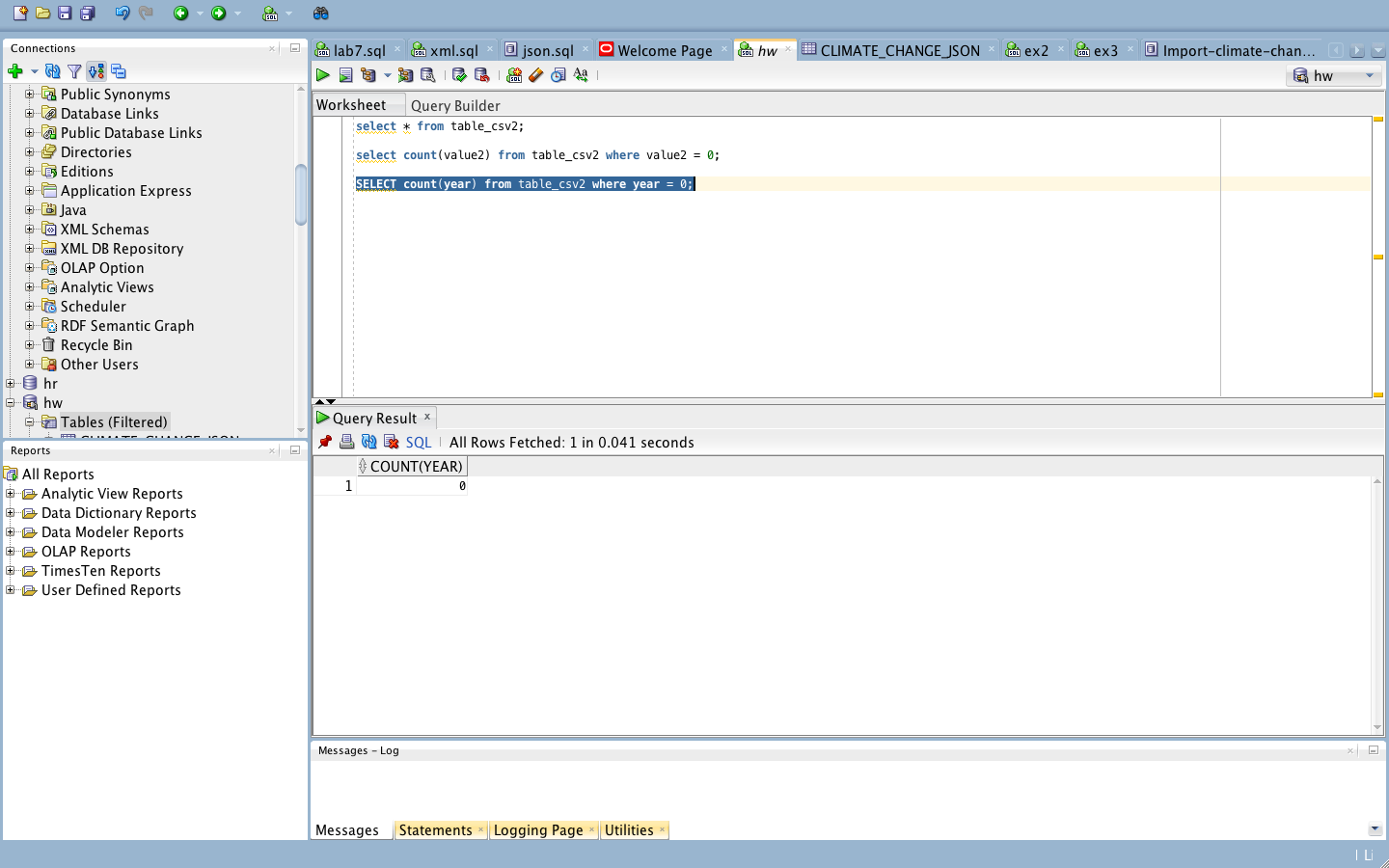
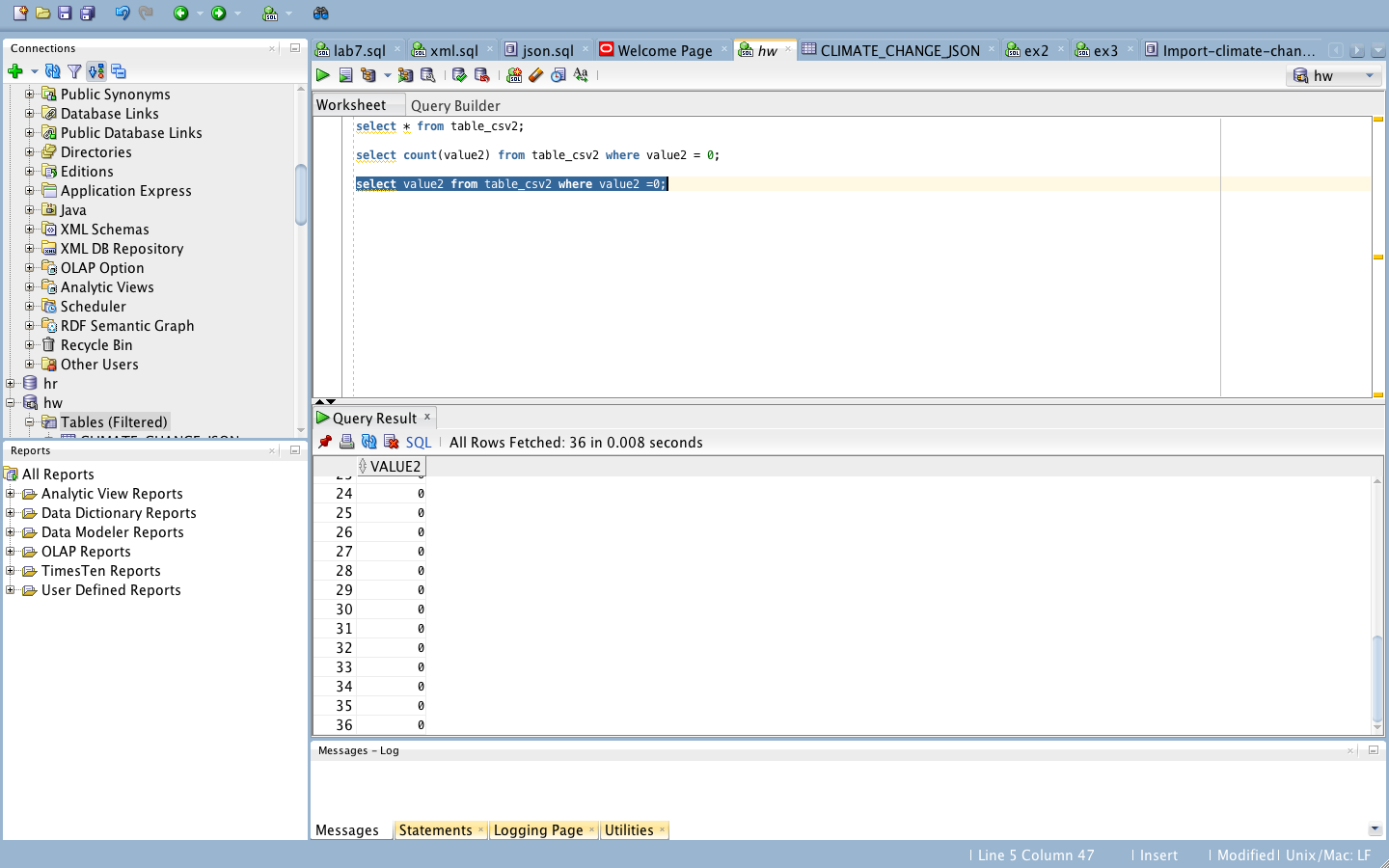
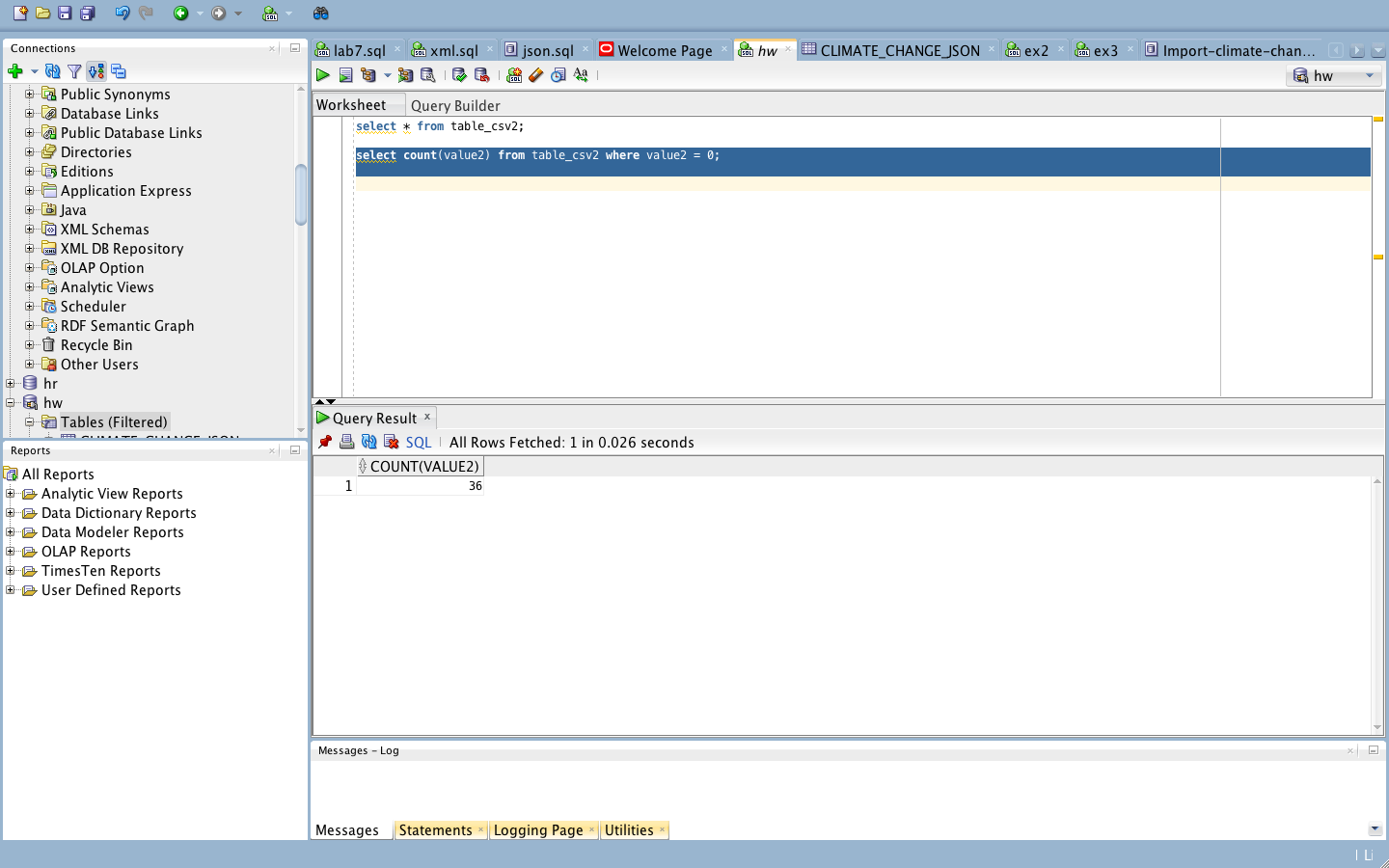
[INDICATOR\_CODE] varchar(26),

[VALUE] varchar(26)

);

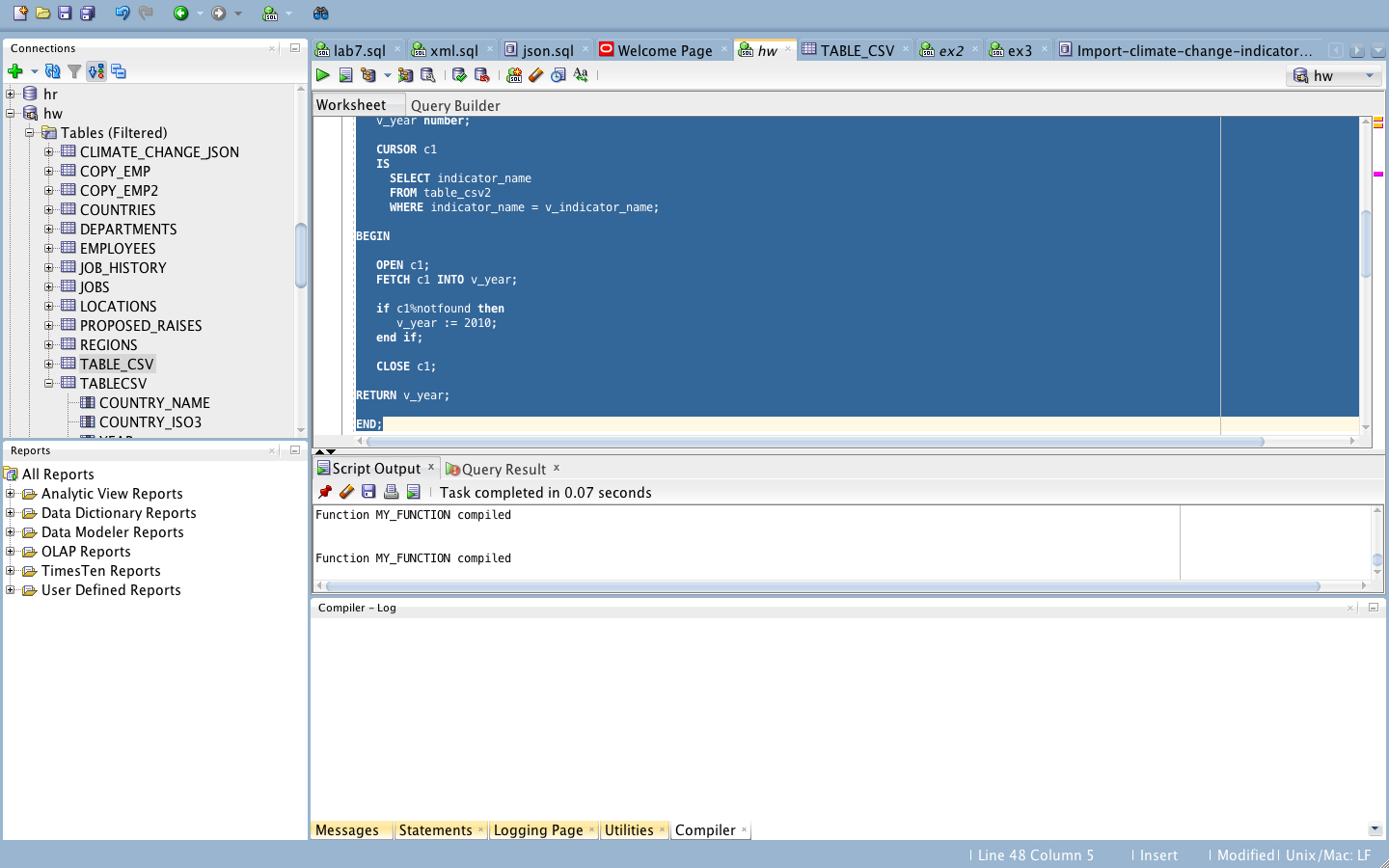
SELECT \* FROM table\_csv2;

3)



4)

1.



CREATE OR REPLACE Function my\_function

( v\_indicator\_name IN varchar2 )

RETURN number

Is

v\_year number;

CURSOR c1

IS

SELECT indicator\_name

FROM table\_csv2

WHERE indicator\_name = v\_indicator\_name;

BEGIN

OPEN c1;

FETCH c1 INTO v\_year;

if c1%notfound then

v\_year := 2010;

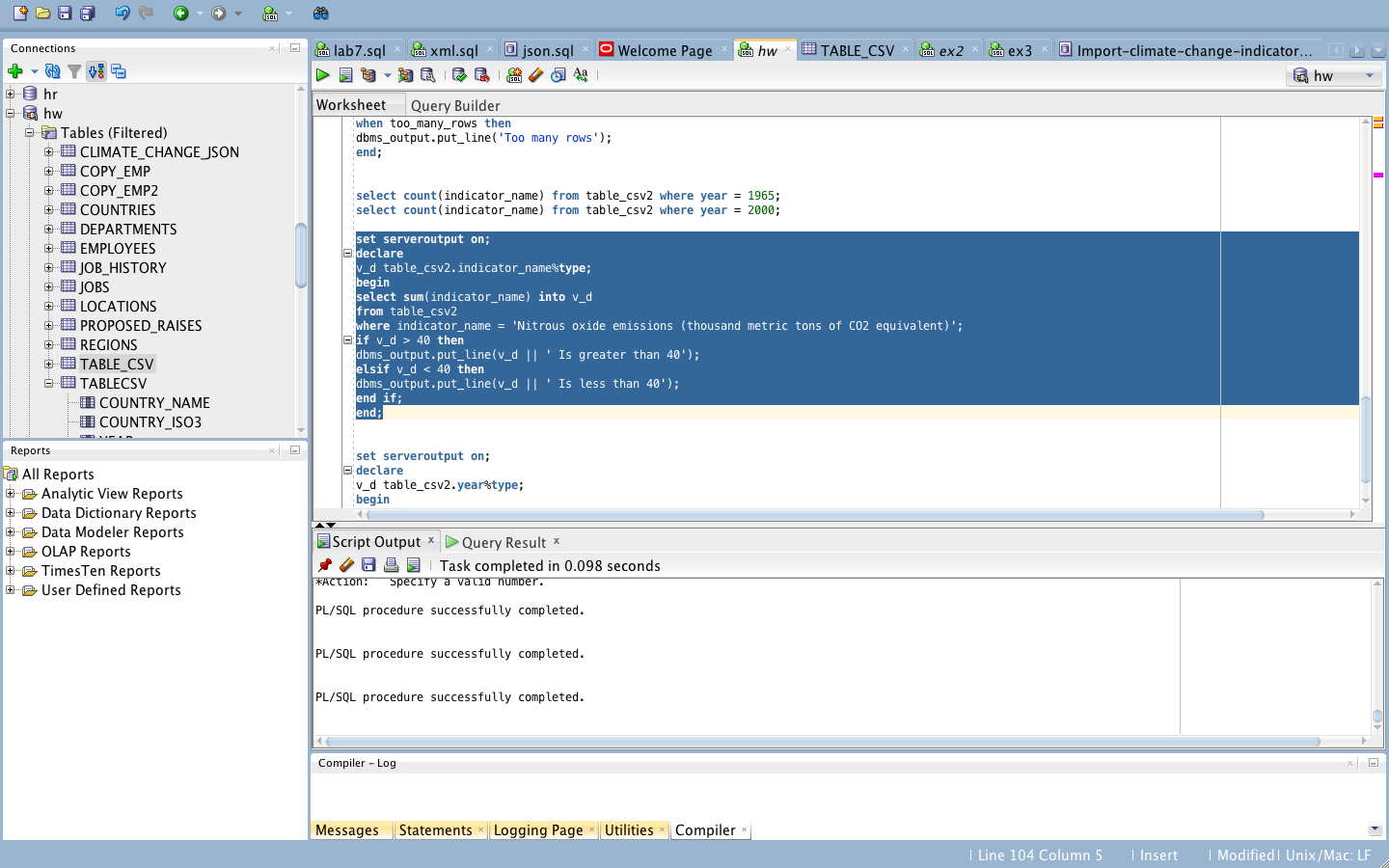
end if;

CLOSE c1;

RETURN v\_year;

END;

2.



set serveroutput on;

declare

v\_d table\_csv2.indicator\_name%type;

begin

select sum(indicator\_name) into v\_d

from table\_csv2

where indicator\_name = 'Nitrous oxide emissions (thousand metric tons of CO2 equivalent)';

if v\_d > 40 then

dbms\_output.put\_line(v\_d || ' Is greater than 40');

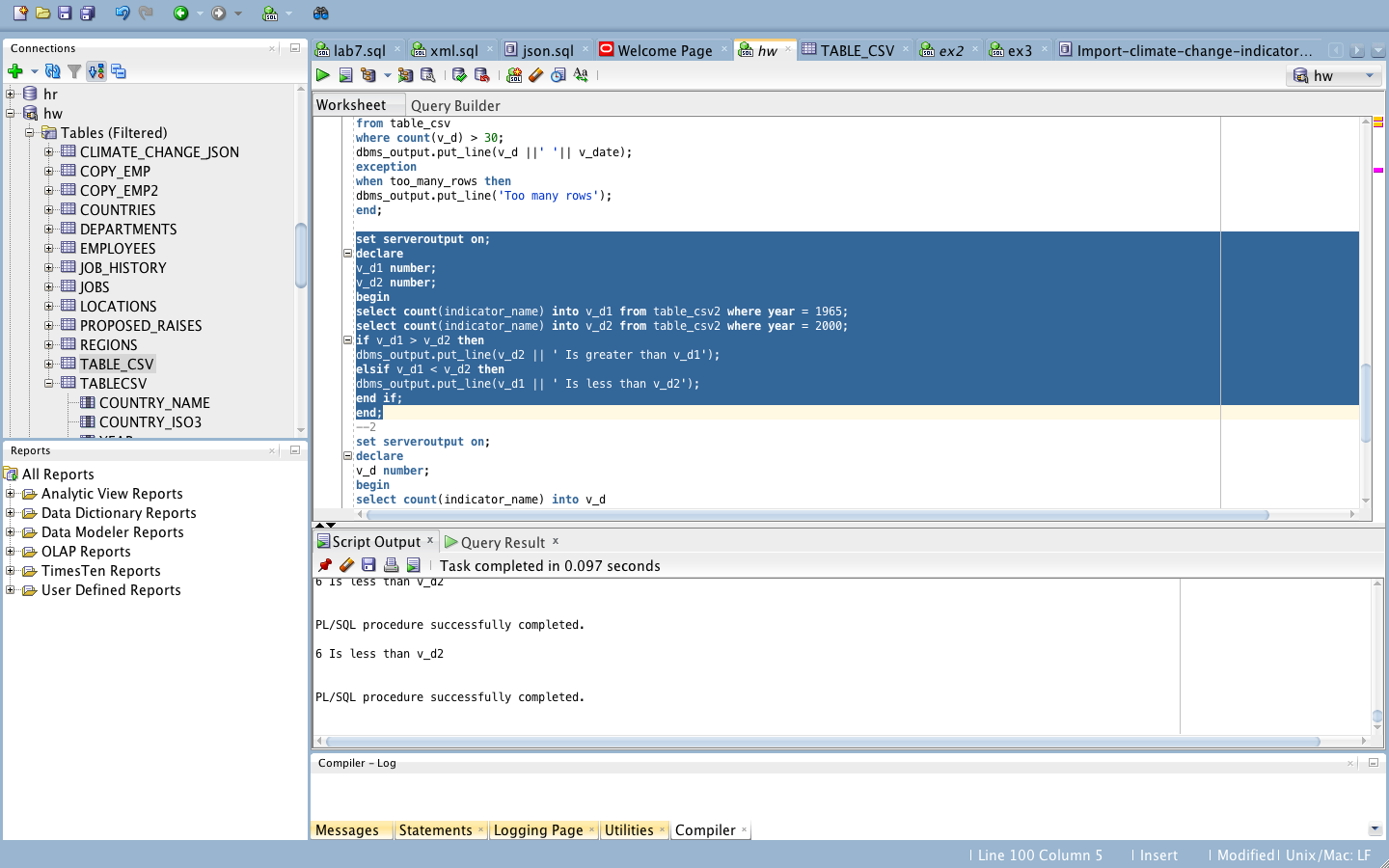
elsif v\_d < 40 then

dbms\_output.put\_line(v\_d || ' Is less than 40');

end if;

end;

3.



set serveroutput on;

declare

v\_d1 number;

v\_d2 number;

begin

select count(indicator\_name) into v\_d1 from table\_csv2 where year = 1965;

select count(indicator\_name) into v\_d2 from table\_csv2 where year = 2000;

if v\_d1 > v\_d2 then

dbms\_output.put\_line(v\_d2 || ' Is greater than v\_d1');

elsif v\_d1 < v\_d2 then

dbms\_output.put\_line(v\_d1 || ' Is less than v\_d2');

end if;

end;

5) Comparison criteria Oracle. MSSQL MySql

**Supports core sql** Yes yes yes

**Supports usage of procedures yes Yes Yes**

**Supports loopin** yes Yes Yes

**Can create variables yes Yes Yes**

**Can create packages** Yes Yes No

**Can create triggers yes Yes Yes**

**Use T/SQL No Yes Yes**

**Use DML yes Yes Yes**

**Use Pl/Sql Yes No Yes**