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NUID : 001052304

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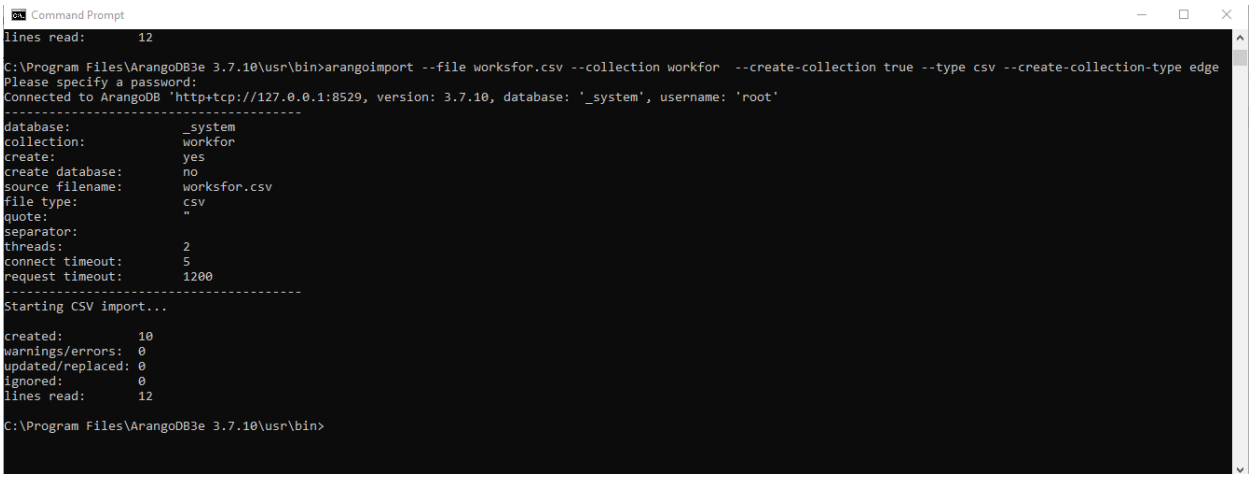
Question 1

Part 1: Import the two provided data files (csv) into an ArangoDB database to create a graph.



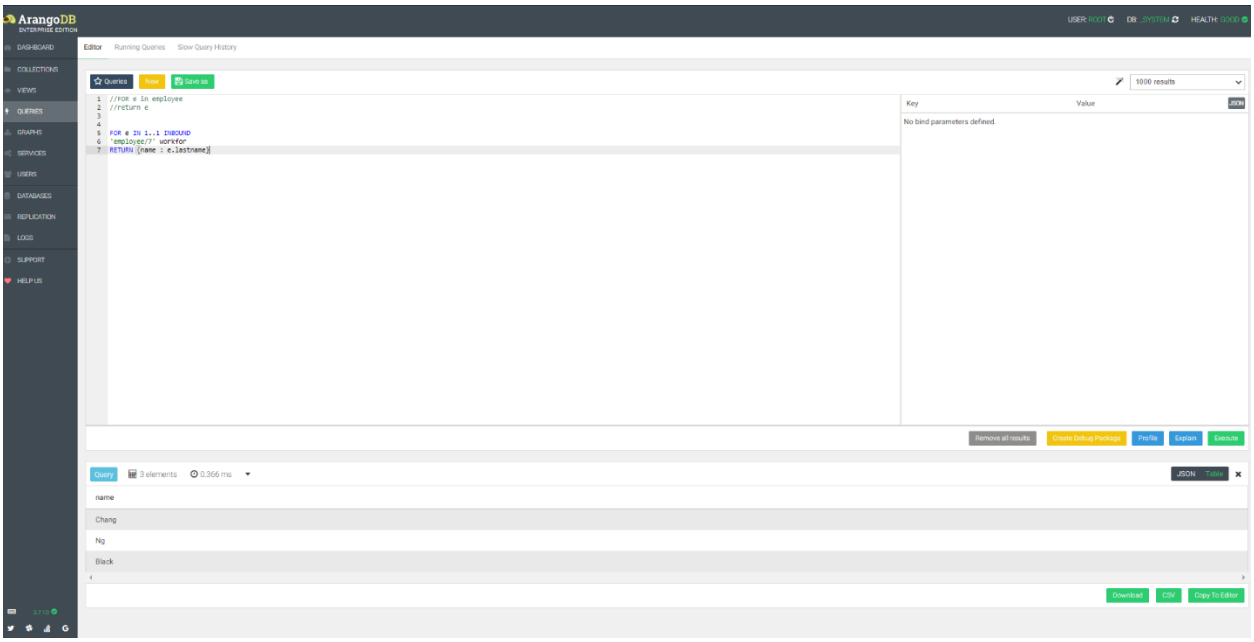

```
C:\Users>cd ..

C:\>cd Program Files\ArangoDB3e 3.7.10\usr\bin

C:\Program Files\ArangoDB3e 3.7.10\usr\bin>arangoimport --file employeeNodes.csv --collection employee --create-collect
on true --type csv
Please specify a password:
Connected to ArangoDB 'http+tcp://127.0.0.1:8529, version: 3.7.10, database: '_system', username: 'root'
database:               _system
collection:             employee
create:                 yes
create database:        no
source filename:        employeeNodes.csv
file type:              csv
quote:                  "
separator:
threads:                2
connect timeout:        5
request timeout:        1200
Starting CSV import...

created:          21
warnings/errors:  0
updated/replaced: 0
ignored:          0
lines read:       23
```

Part 2: Using the data imported above, write an AQL query to retrieve Employee ID 7's direct reports. The returned data should have the format displayed below.

FOR e IN 1..1 INBOUND

'employee/7' workfor

RETURN {name : e.lastname}



Part 3: Using the data imported above, write an AQL query to retrieve all employees supervised by 2 directly or indirectly.

FOR v, e, p IN 1..5 inbound 'employee/2' workfor

OPTIONS {

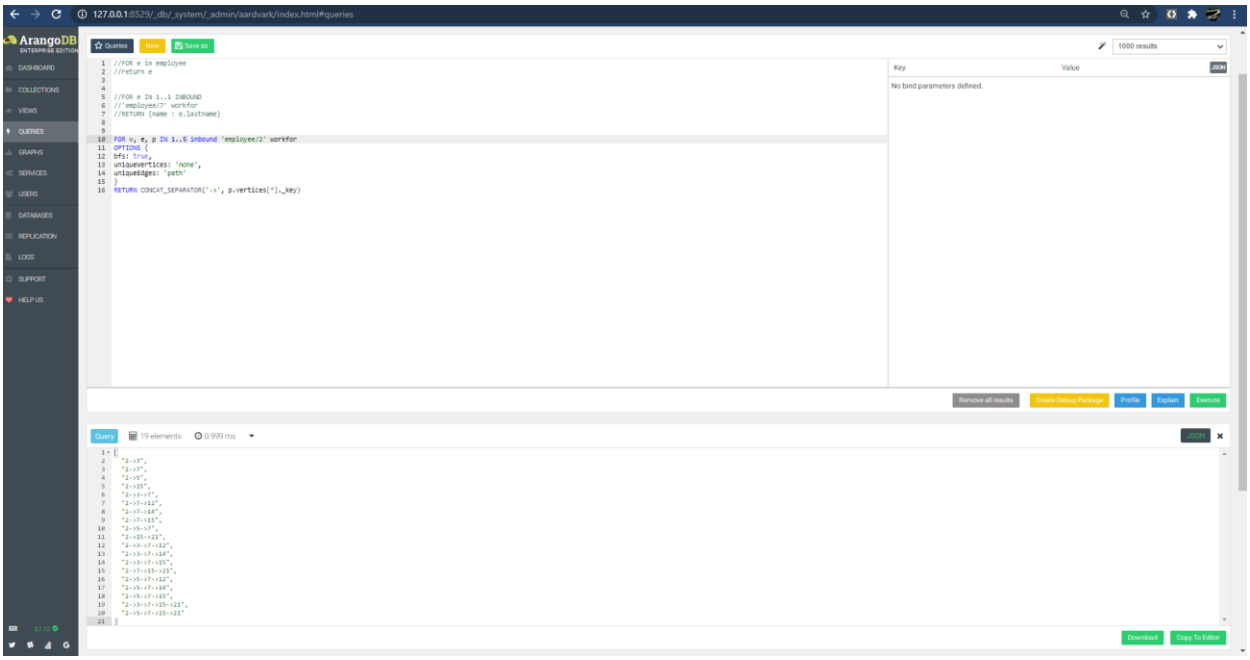
bfs: true,

uniqueVertices: 'none',

uniqueEdges: 'path'

}

RETURN CONCAT_SEPARATOR('->', p.vertices[*]._key)



Question 2
Dynamic SQL

```
CREATE PROC [dbo].[archive]
 @beginYr int,@endYr int
 AS
 BEGIN
DECLARE @table varchar(100);
DECLARE @log varchar(100);
DECLARE @result int;
DECLARE @q varchar(MAX);
DECLARE @clinicid int;
CREATE TABLE #temp
(Clinic int,
 Total_Appointment_Count int);
set @result = 0;
DECLARE appointment_cursor CURSOR FOR
       select tablename,clinicid from archivelogp where appointmentyear between @beginYr
and @endYr;
OPEN appointment_cursor;
FETCH NEXT FROM appointment_cursor INTO @table,@clinicid;
WHILE @@FETCH_STATUS = 0
BEGIN
       SET @q = N'Select clinicid Clinic, count(*) cnt FROM archivelogp where tablename =
' + @table + ' group by clinicid';
       SELECT @clinicid, @result = @result  + cast(exec(q) as int);
       INSERT INTO #temp VALUES (@clinicid, @result);
END
END
```