

titanic_neo4j

Student Name: Laiba Asif

Student ID: R00201303

Module: NoSQL Data

Architectures

Date: 12/05/23

```
1) Importing the Data:
LOAD CSV WITH HEADERS FROM 'file:///titanic.csv' AS row
CREATE (passenger:Passenger {
survival: toInteger(row.survival),
 pclass: toInteger(row.pclass),
 sex: row.sex,
 age: toFloat(row.age),
sibsp: toInteger(row.sibsp),
 parch: toInteger(row.parch),
ticket: row.ticket,
fare: toFloat(row.fare),
 cabin: row.cabin,
 embarked: row.embarked
})
2) Database Design:
CREATE INDEX ON :Passenger(name)
3) Query Execution:
1) List alphabetically the names of all female passengers that survived:
MATCH (p:Passenger)
WHERE p.sex = 'female' AND p.survival = 1
RETURN p.name
ORDER BY p.name ASC
```

2) Output by class, the names of children who survived:

MATCH (p:Passenger)

WHERE p.age < 18 AND p.survival = 1
RETURN p.pclass, p.name
ORDER BY p.pclass ASC

3) Output by class, the names of children who did not survive:

MATCH (p:Passenger)

WHERE p.age < 18 AND p.survival = 0

RETURN p.pclass, p.name

ORDER BY p.pclass ASC

4)Count of children in each class that survived:

MATCH (p:Passenger)

WHERE p.age < 18 AND p.survival = 1

RETURN p.pclass, count(p) AS count

ORDER BY p.pclass ASC

5)Count of children in each class who did not survive:

MATCH (p:Passenger)

WHERE p.age < 18 AND p.survival = 0

RETURN p.pclass, count(p) AS count

ORDER BY p.pclass ASC