

Esempi di test

In concomitanza con i casi di test realizzati tramite Junit, vengono proposti dei casi di test del tipo “black box”, con i quali risulta più facile comprendere la risposta del software in base alle diverse tipologie di input. Seguendo l’ordine di esecuzione del programma (connessione, clusterizzazione e caricamento da file), verranno effettuati i possibili input:

- Connessione (indirizzo IP e porta)

Casi possibili:

- 1) Indirizzo corretto, porta corretta (es. 127.0.0.1, 12346)
- 2) Indirizzo corretto, porta errata (es. 127.0.0.1, 9999)
- 3) Indirizzo corretto, porta non valida (es. 127.0.0.1, 78987)

Three screenshots of the 'SETTINGS' dialog box, specifically the 'CONNECTION OPTIONS' section. Each window has a title bar with a gear icon and the word 'SETTINGS'. The first window (1) shows 'IP address' as '127.0.0.1' and 'Port' as '12346'. The second window (2) shows 'IP address' as '127.0.0.1' and 'Port' as '9999'. The third window (3) shows 'IP address' as '127.0.0.1' and 'Port' as '78987'. Each window has 'Connect' and 'Reset' buttons at the bottom.

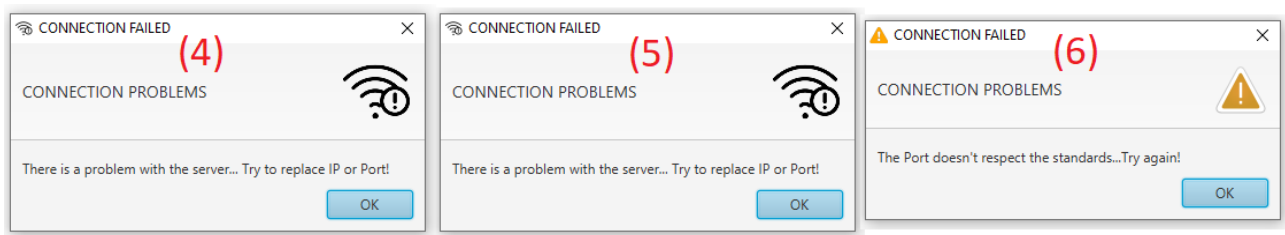
Produrranno i seguenti output:

Three screenshots of the output for the first three test cases. The first screenshot (1) shows a 'Connection Status' indicator with a green dot. The second screenshot (2) shows a 'CONNECTION FAILED' dialog box with the text 'CONNECTION PROBLEMS' and 'There is a problem with the server... Try to replace IP or Port!'. The third screenshot (3) shows a 'CONNECTION FAILED' dialog box with the text 'CONNECTION PROBLEMS' and 'The Port doesn't respect the standards...Try again!'. Both failure dialog boxes have an 'OK' button.

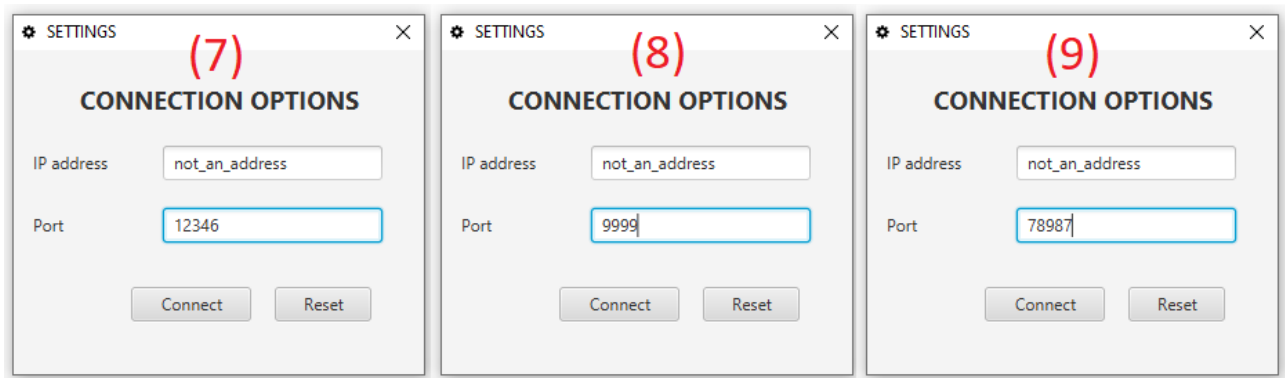
- 4) Indirizzo errato, porta corretta (es. 126.0.0.2, 12346)
- 5) Indirizzo errato, porta errata (es. 126.0.0.2, 9999)
- 6) Indirizzo errato, porta non valida (es. 126.0.0.2, 78987)

Three screenshots of the 'SETTINGS' dialog box, specifically the 'CONNECTION OPTIONS' section. Each window has a title bar with a gear icon and the word 'SETTINGS'. The first window (4) shows 'IP address' as '126.0.0.2' and 'Port' as '12346'. The second window (5) shows 'IP address' as '126.0.0.2' and 'Port' as '9999'. The third window (6) shows 'IP address' as '126.0.0.2' and 'Port' as '78987'. Each window has 'Connect' and 'Reset' buttons at the bottom.

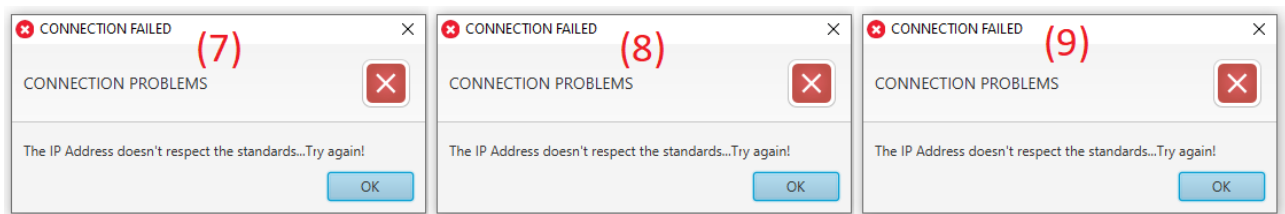
Produrranno i seguenti output:



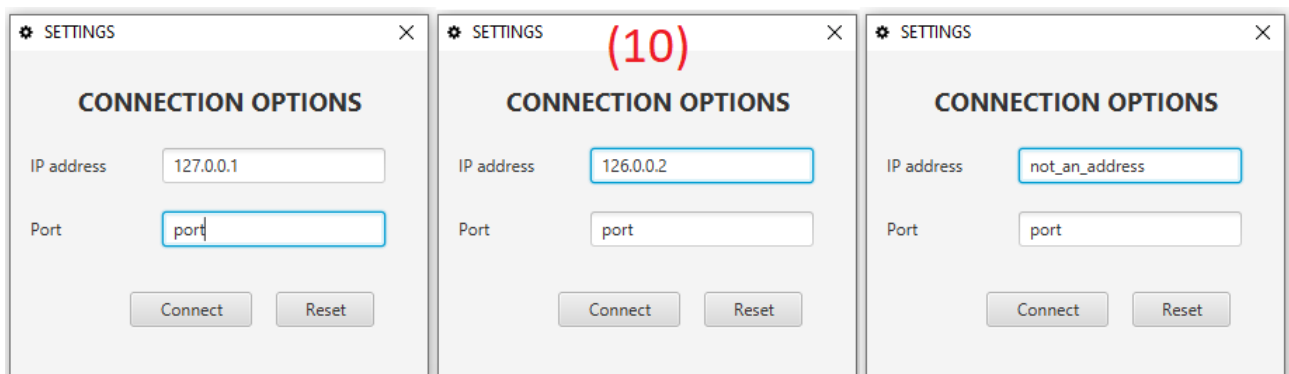
- 7) Indirizzo non valido, porta corretta (es. not_an_address, 12346)
- 8) Indirizzo non valido, porta errata (es. not_an_address, 9999)
- 9) Indirizzo non valido, porta non valida (es. not_an_address, 78987)



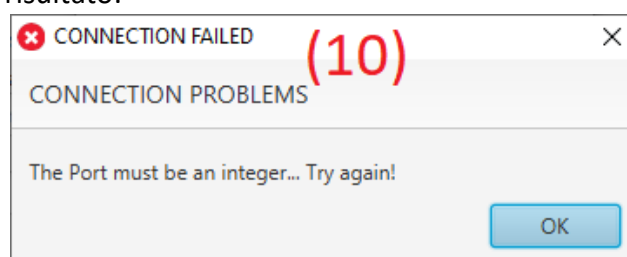
Produrranno i seguenti output:



- 10) Indirizzo corretto/errato/non valido/, porta non numerica



Produrranno il seguente risultato:



- Clusterizzazione (nome tabella e raggio)

Casi possibili:

- 1) Tabella corretta, raggio corretto
- 2) Tabella corretta, raggio troppo grande
- 3) Tabella corretta, raggio non valido

The three screenshots show the 'Load From Database' section of the QT-Miner JavaFX application. In all three, the 'Table Name' is 'playtennis' and the 'Load From File' section is empty. The 'Radius' field is highlighted in each case.

- (1) Radius: 2
- (2) Radius: 999
- (3) Radius: abc

Produrranno i seguenti output:

(1)

Cluster ID	outlook	temperature	umidity	wind	play	Distance	
0	sunny	30.3	high	weak	no	0.0	
0	sunny	30.3	high	strong	no	1.0	
0	sunny	13.0	high	weak	no	0.570957095709571	
1	overcast	30.0	high	weak	yes	1.5775577557755776	
1	overcast	0.1	normal	strong	yes	1.4092409240924093	
1	sunny	12.5	normal	strong	yes	2.0	
1	overcast	12.5	high	strong	yes	0.0	
1	rain	12.5	high	strong	no	2.0	
2	rain	13.0	high	weak	yes	1.4290429042904291	
2	rain	0.0	normal	weak	yes	0.0	
2	rain	0.0	normal	strong	no	2.0	

(2) ERROR: USER INPUT ERROR. Radius is too big. All tuples in one Cluster!

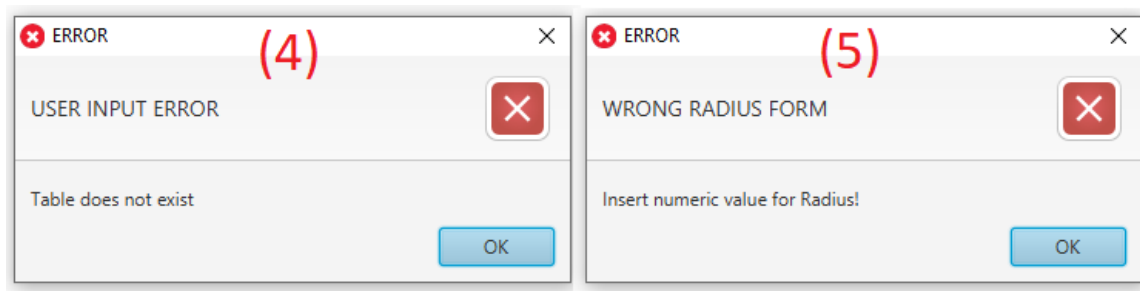
(3) ERROR: WRONG RADIUS FORM. Insert numeric value for Radius!

- 4) Tabella sbagliata (inesistente), raggio corretto/troppo grande
- 5) Tabella sbagliata (inesistente), raggio non valido

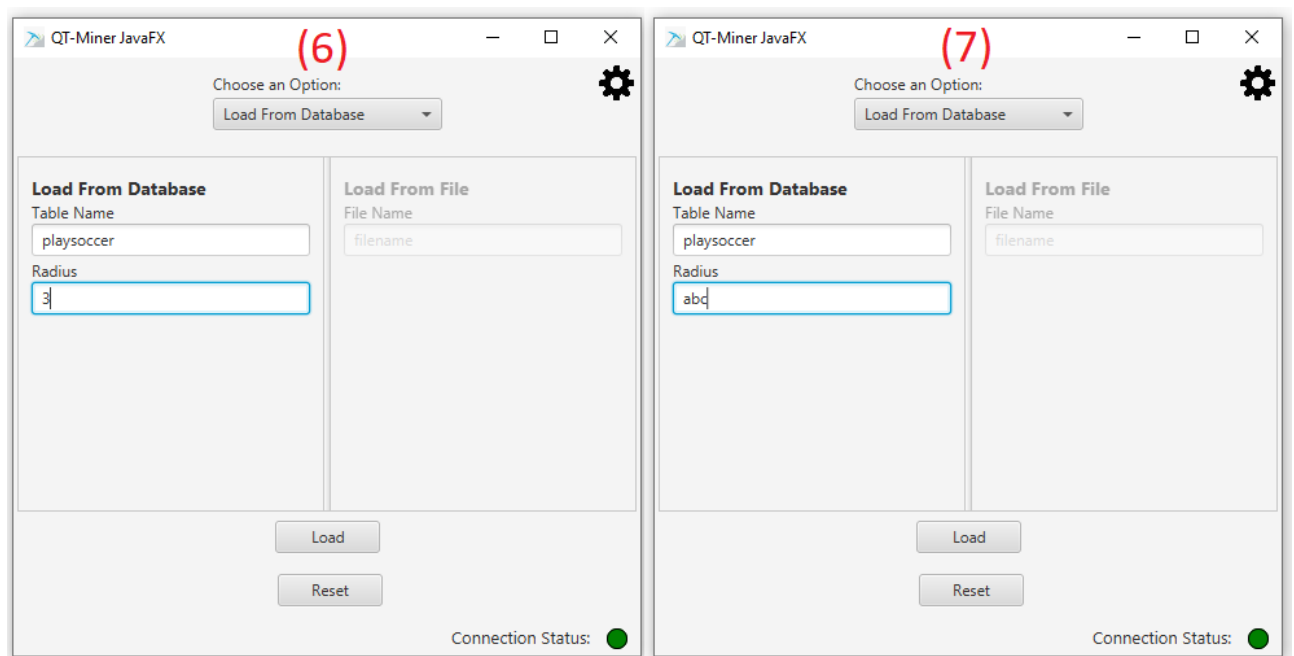
The two screenshots show the 'Load From Database' section of the QT-Miner JavaFX application. In both, the 'Table Name' is 'playingpong' and the 'Load From File' section is empty. The 'Radius' field is highlighted in each case.

- (4) Radius: 3
- (5) Radius: abc

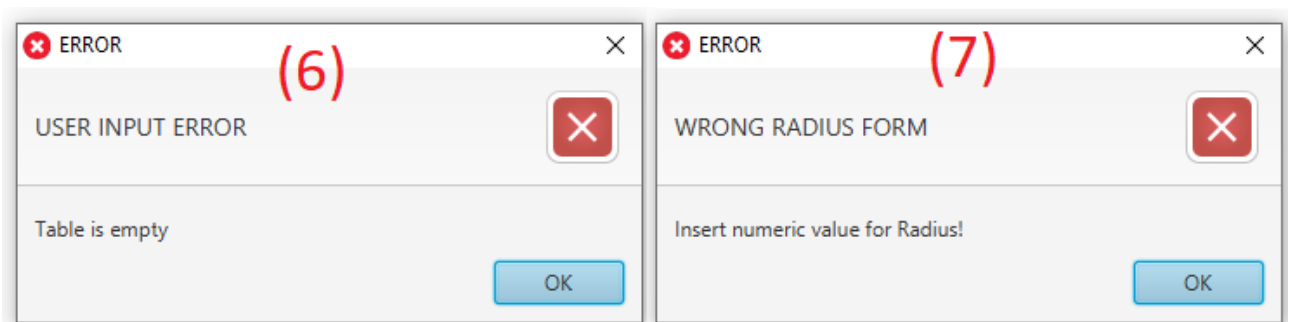
Produrranno i seguenti output:



- 6) Tabella vuota, raggio corretto/troppo grande
- 7) Tabella vuota, raggio non valido

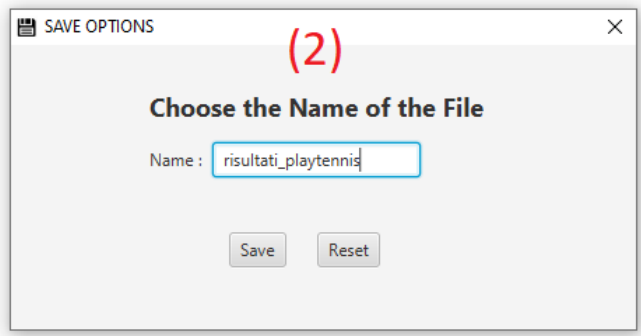
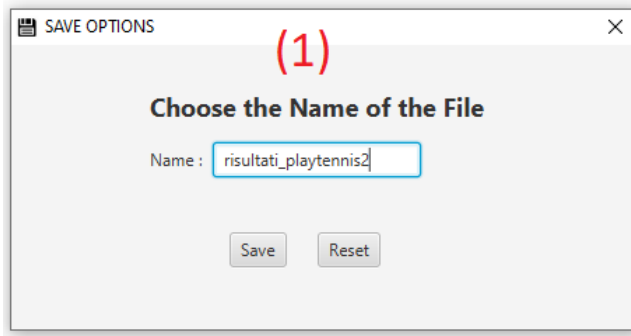


Produrranno i seguenti output:

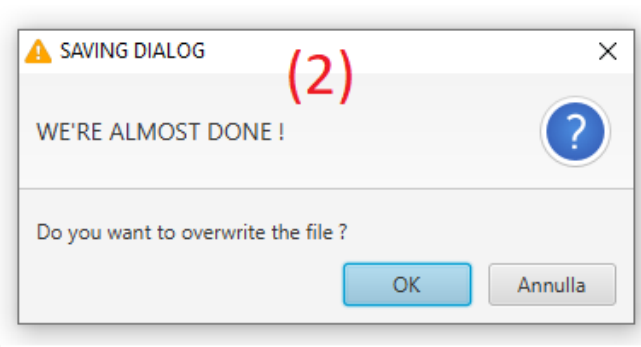


Provando a premere “Save” (vedi output n.1 della clusterizzazione), verrà richiesto di immettere il nome del file sul quale verranno salvati i risultati, i casi possibili sono i seguenti:

- 1) Nome di un file non presente
- 2) Nome di un file già presente



Produrranno i seguenti output:



- Caricamento da file (nome file)

Casi possibili:

- 1) Nome di un file salvato in precedenza o equivalente
- 2) Nome di un file non presente

The image displays two side-by-side screenshots of the QT-Miner JavaFX application window, labeled (1) and (2). Both windows have a title bar that reads "QT-Miner JavaFX" and standard window controls (minimize, maximize, close). A gear icon for settings is located in the top right corner of each window.

Below the title bar, there is a section titled "Choose an Option:" with a dropdown menu currently set to "Load From File".

The main content area is divided into two panels:

- Load From Database:** Contains a "Table Name" text field with the value "playtennis" and a "Radius" text field with the value "2.0".
- Load From File:** Contains a "File Name" text field. In screenshot (1), the value is "risultati_playtennis". In screenshot (2), the value is "not_risultati_playtennis".


At the bottom of each window, there are two buttons: "Load" and "Reset".

In the bottom right corner of each window, there is a "Connection Status:" label followed by a green circular indicator, suggesting a successful connection.

Produrranno i seguenti risultati:

[illegible]

(2)



ERROR

USER INPUT ERROR

File does not exist

OK