```
!git pull
```

Already up to date.

```
RAW=struct();
RAW.Confirmed = import_git('time_series_covid19_confirmed_global.csv');
```

Warning: Column headers from the file were modified to make them valid MATLAB identifiers before creating
 variable names for the table. The original column headers are saved in the VariableDescriptions property.
Set 'PreserveVariableNames' to true to use the original column headers as table variable names.

```
RAW.Deaths = import_git('time_series_covid19_deaths_global.csv');
```

Warning: Column headers from the file were modified to make them valid MATLAB identifiers before creating
 variable names for the table. The original column headers are saved in the VariableDescriptions property.
Set 'PreserveVariableNames' to true to use the original column headers as table variable names.

```
% RAW.Confirmed = trial('time_series_19-covid-Confirmed.csv');
% RAW.Deaths = trial('time_series_19-covid-Deaths.csv');
% RAW.Recovered = import_git('time_series_19-covid-Recovered.csv');

Categories=fieldnames(RAW);

StartDate = datetime(2020,01,22)
```

StartDate = datetime
   22-Jan-2020

```
EndDate = StartDate+days(size(RAW.(Categories{1}),2)-5)
```

EndDate = datetime
   26-Mar-2020 00:00:00

```
Selected_Countries=categorical({'US','United Kingdom','Germany','Switzerland','Canada','France'
    'Singapore','Australia','India','Mauritius',...
    'Saudi Arabia','Korea, South','Italy'});
```

```
gradient_span=5; %days

CountrywiseData=struct();
for category_count=1:size(Categories,1)
    plot_titles=cell(size(Selected_Countries,2),1);
    for country_count=1:size(Selected_Countries,2)
        RAW.(Categories{category_count}).Country_Region=categorical(RAW.(Categories{category_co
        Idn=RAW.(Categories{category_count}).Country_Region==Selected_Countries(country_count);
        temp=RAW.(Categories{category_count}){Idn,(5:end)};
        CountrywiseData.(Categories{category_count})(country_count,:)=sum(temp,1);
        plot_titles{country_count,1}=[char(Categories{category_count}),'_',char(Selected_Countr
    end
```

```
    fig_title=char(Categories{category_count});
    SimpleScatter(StartDate,CountrywiseData.(Categories{category_count}),fig_title,plot_titles,
end
```
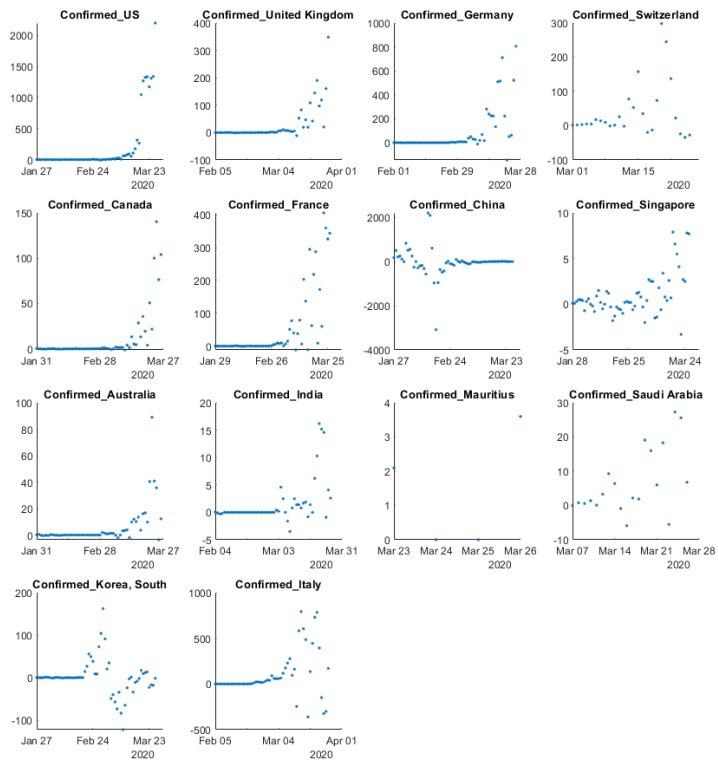
Starting parallel pool (parpool) using the 'local' profile ...
Connected to the parallel pool (number of workers: 8).
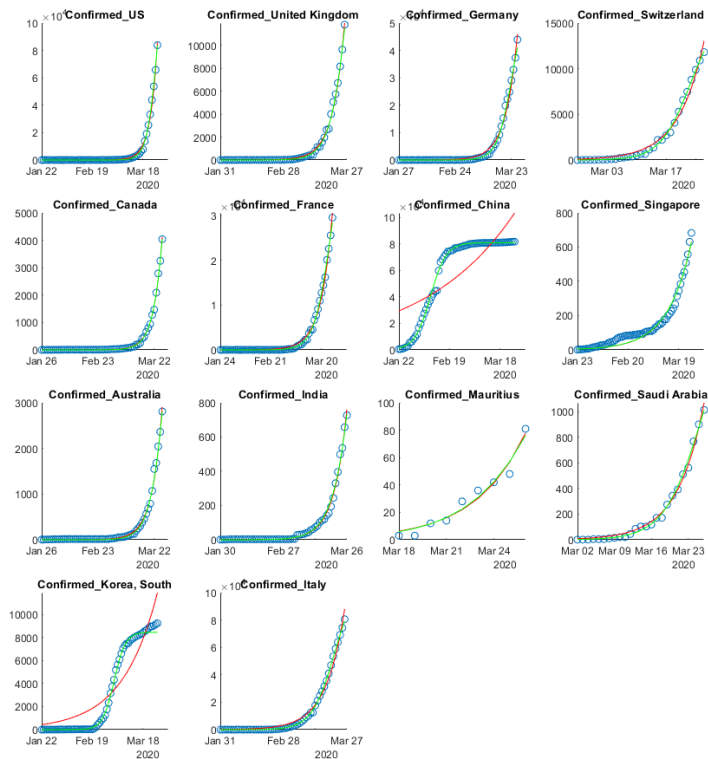ans =
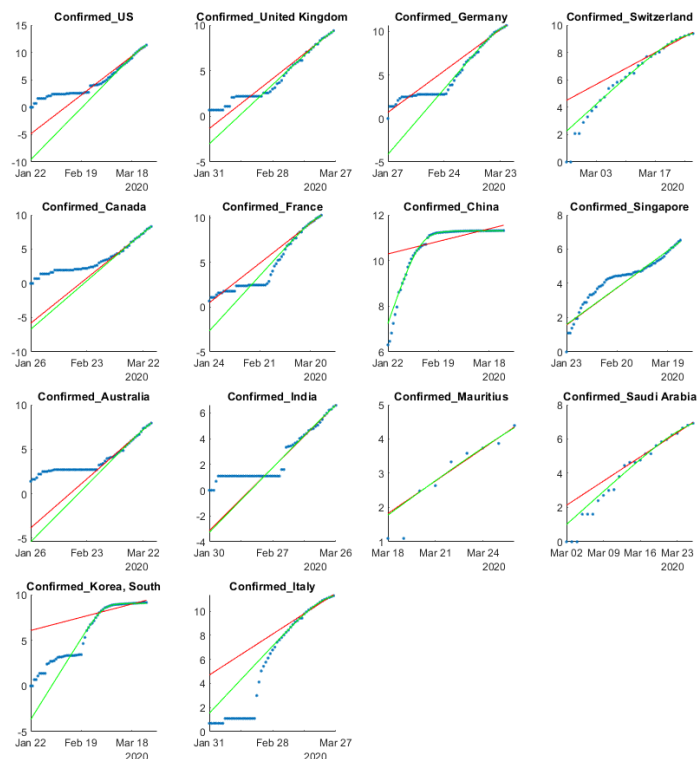'DailyIncrease_Confirmed'
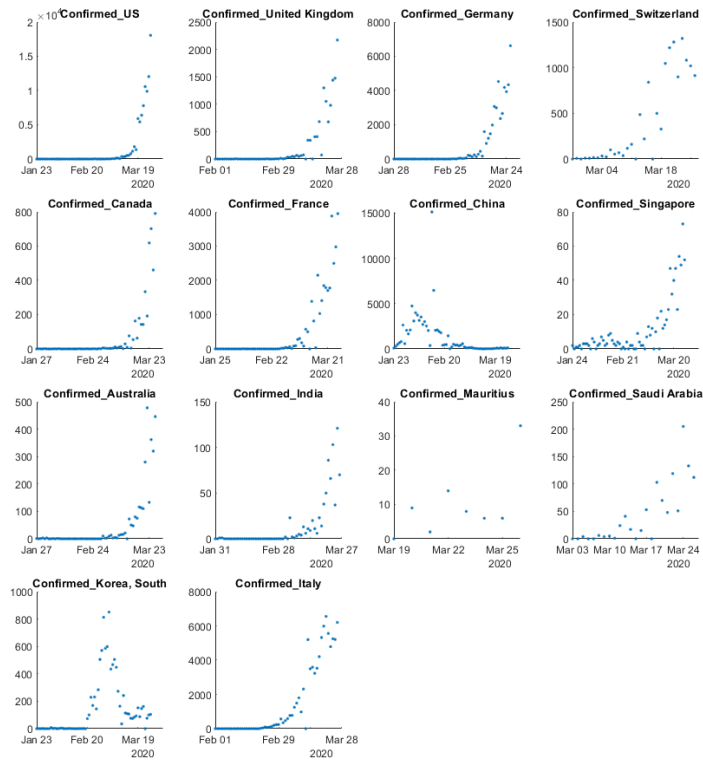
ans =
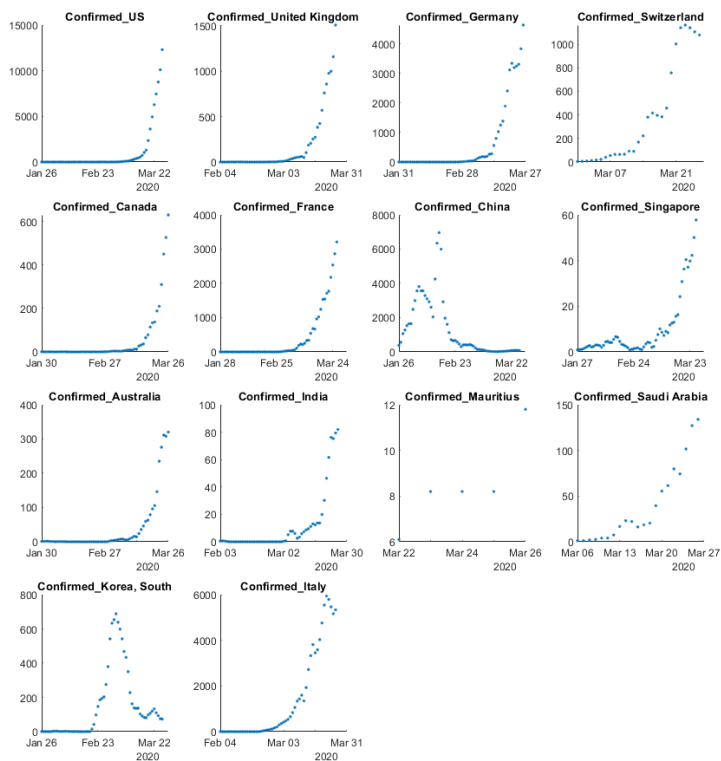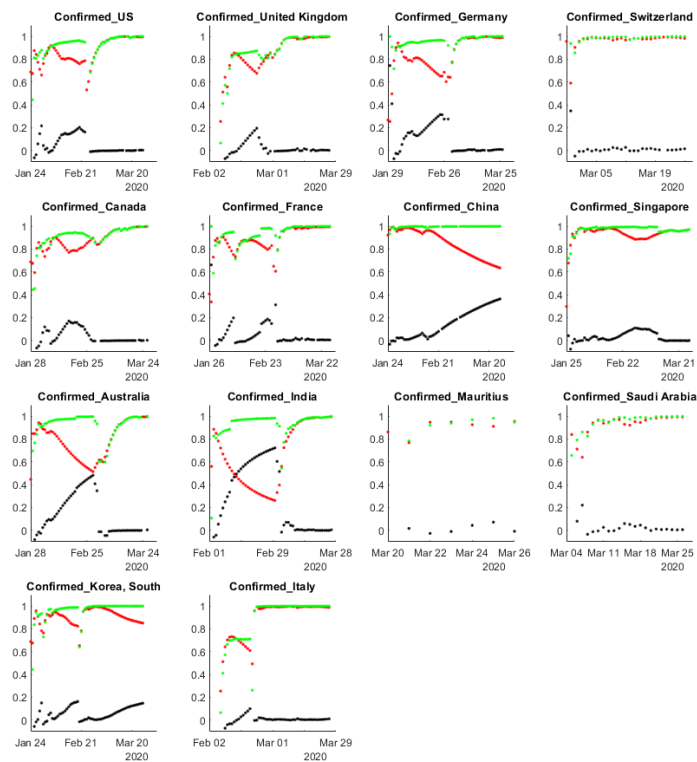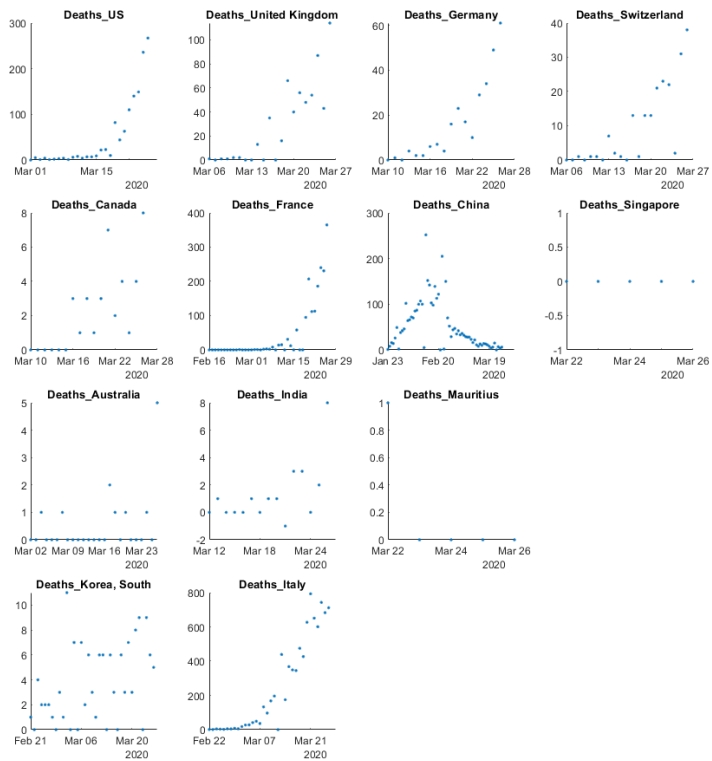'Grad of DailyIncrease_Confirmed'

ans =
'Confirmed'

ans =
'Log_Confirmed'
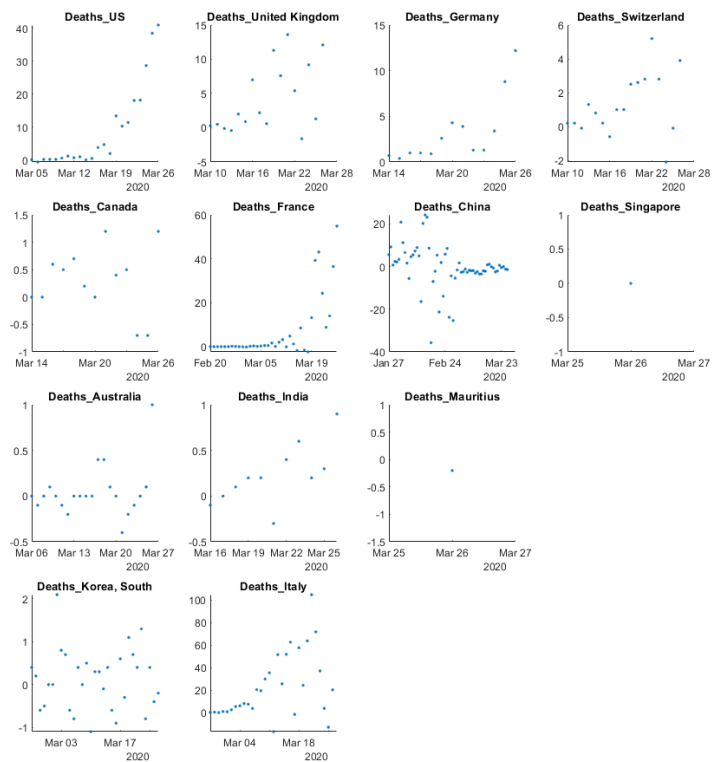
3

```
ans =
'Gradient_Confirmed'
```



```
ans =
'Goodness of Fit_Confirmed'
```

Confirmed_US, Confirmed_United Kingdom, Confirmed_Germany, Confirmed_Switzerland, Confirmed_Canada, Confirmed_France, Confirmed_China, Confirmed_Singapore, Confirmed_Australia, Confirmed_India, Confirmed_Mauritius, Confirmed_Saudi Arabia, Confirmed_Korea, South, Confirmed_Italy

```
ans =
'DailyIncrease_Deaths'
```


Deaths_US, Deaths_United Kingdom, Deaths_Germany, Deaths_Switzerland, Deaths_Canada, Deaths_France, Deaths_China, Deaths_Singapore, Deaths_Australia, Deaths_India, Deaths_Mauritius, Deaths_Korea, South, Deaths_Italy
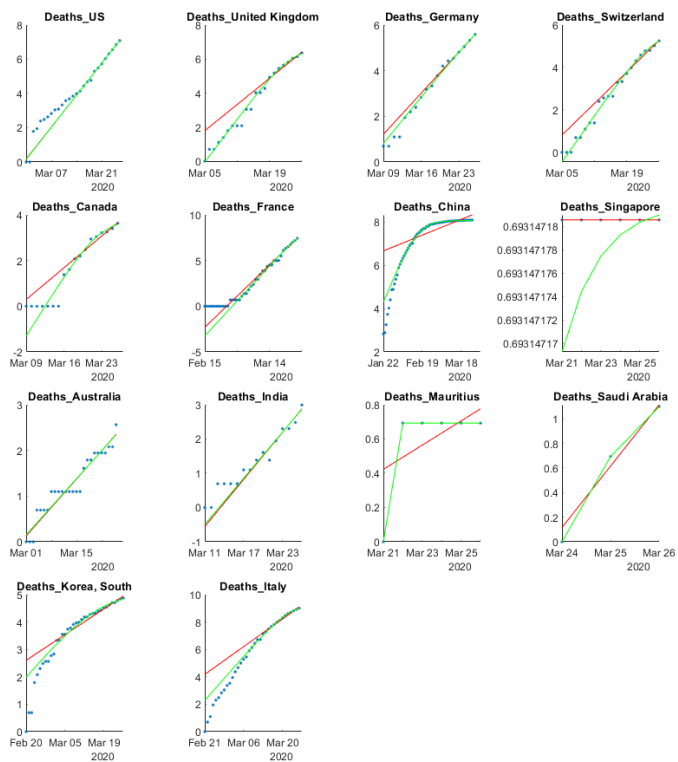
```
ans =
'Grad of DailyIncrease_Deaths'
```
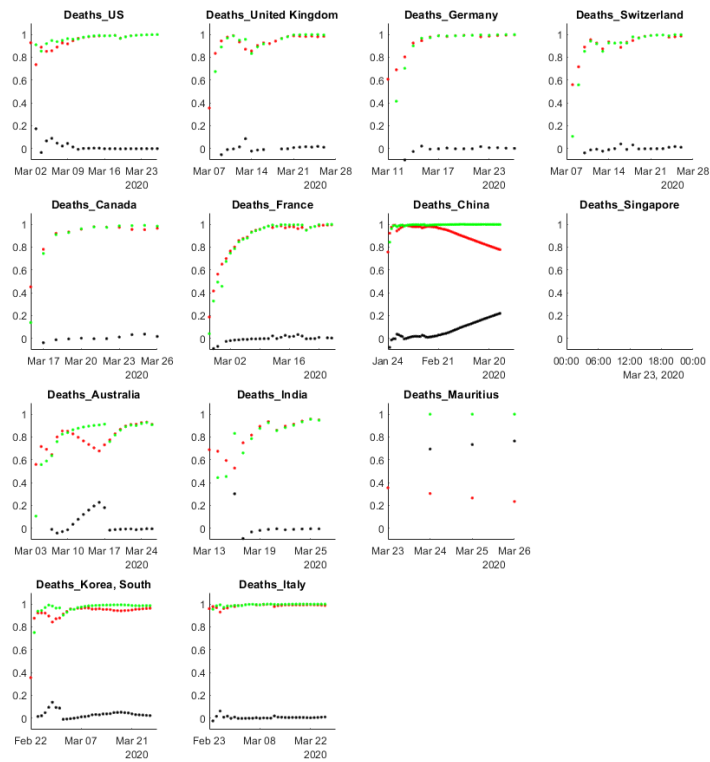
ans =
'Deaths'

ans =
'Log_Deaths'

6
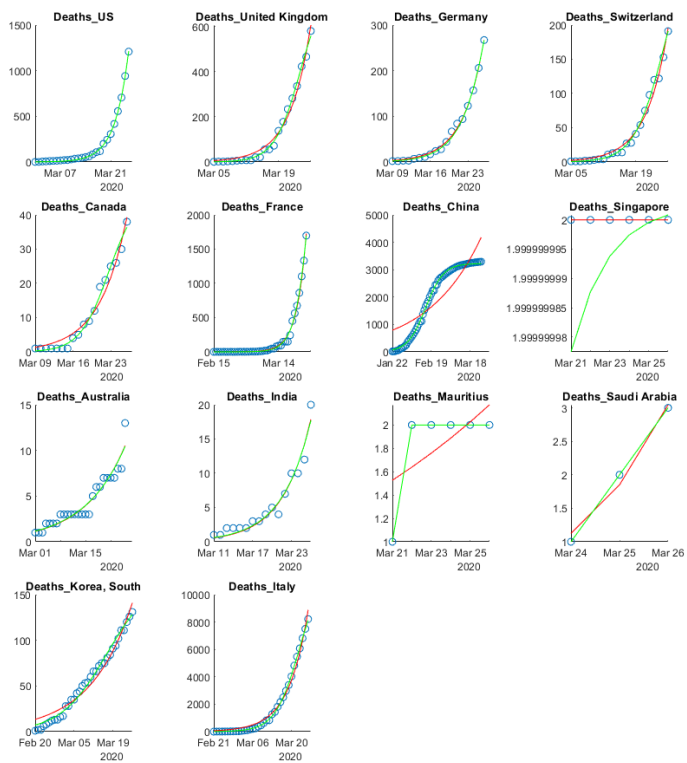
```
ans =
'Gradient_Deaths'
```
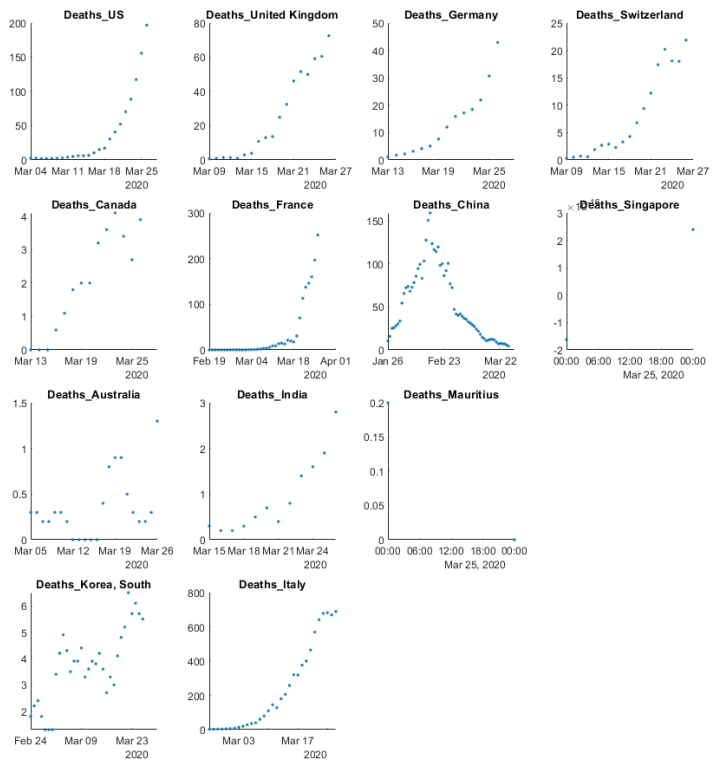


```
ans =
'Goodness of Fit_Deaths'
```

```matlab
rep_BaseName=datetime;
rep_BaseName.Format='yyyyMMdd';
rep_BaseName=['report_',char(rep_BaseName),'.pdf'];
matlab.internal.liveeditor.openAndConvert(which('main.mlx'),rep_BaseName);
```