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# Report on the current number of products/skus

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## Getting data from the database referential & storing it efficiently in memory

```
javaaddpath('C:\My_MathWorks_Work\PRODUCTS\postgresql-9.3-1102.jdbc4.jar');
setdbprefs('DataReturnFormat','table');
conn = database('PRODUCTSDB','postgres','root','Vendor','PostgreSQL',...
    'Server','localhost');
curs = exec(conn,'select * from magasin_produits');
curs = fetch(curs);
close(curs);
%Assign data to output variable
data = curs.Data;
% Close database connection.
close(conn);
```

```
Warning: Objects of org/postgresql/jdbc4/Jdbc4ResultSet class exist - not
clearing java
Warning: Objects of org/postgresql/jdbc4/Jdbc4Statement class exist - not
clearing java
Warning: Objects of org/postgresql/jdbc4/Jdbc4Connection class exist - not
clearing java
```

## Filtering the data

```
magasin_index=strcmp(data.magasin,'TOTAL');
rayon_index=strcmp(data.rayon,'TOTAL')&~(magasin_index);
total = data(magasin_index,:);
magasin = data(rayon_index,:);
rayon = data(~(magasin_index | rayon_index),:);
```

## Working the data to store it in memory efficiently

```
rayon.magasin=categorical(rayon.magasin);
rayon.rayon=categorical(rayon.rayon);
rayon.report_date=datetime(rayon.report_date, 'yyyy-mm-dd');
% rayon.nb_skus_total=int32(rayon.nb_skus_total);
% rayon.nb_skus_total=int32(rayon.nb_skus_total);
% rayon.nb_skus_mp=int32(rayon.nb_skus_mp);
% rayon.nb_skus_cd=int32(rayon.nb_skus_cd);
% rayon.nb_skus_mixte=int32(rayon.nb_skus_mixte);
% rayon.nb_offre_exclu_mp=int32(rayon.nb_offre_exclu_mp);
% Working the data
magasin.magasin=categorical(magasin.magasin);
magasin.rayon=categorical(magasin.rayon);
magasin.report_date=datetime(magasin.report_date, 'yyyy-mm-dd');
% magasin.nb_skus_total=int32(magasin.nb_skus_total);
% magasin.nb_skus_total=int32(magasin.nb_skus_total);
% magasin.nb_skus_mp=int32(magasin.nb_skus_mp);
% magasin.nb_skus_cd=int32(magasin.nb_skus_cd);
% magasin.nb_skus_mixte=int32(magasin.nb_skus_mixte);
% magasin.nb_offre_exclu_mp=int32(magasin.nb_offre_exclu_mp);
% Working the data
total.magasin=categorical(total.magasin);
total.rayon=categorical(total.rayon);
total.report_date=datetime(total.report_date, 'yyyy-mm-dd');
% total.nb_skus_total=int32(total.nb_skus_total);
% total.nb_skus_total=int32(total.nb_skus_total);
% total.nb_skus_mp=int32(total.nb_skus_mp);
% total.nb_skus_cd=int32(total.nb_skus_cd);
% total.nb_skus_mixte=int32(total.nb_skus_mixte);
% total.nb_offre_exclu_mp=int32(total.nb_offre_exclu_mp);
my_magasins=unique(magasin.magasin);
my_rayons=unique(rayon.rayon);
```

## Saving serialized data as a flat file

```
%save('my_data.mat');
```

## Aggregated Cdiscount reporting

concatenation

```
total_matrix=[total.nb_skus_total,total.nb_skus_mp,total.nb_skus_cd,total.nb_skus_
total_matrix=ret2price(price2ret(total_matrix));
% visualization
figure;
plot(total.report_date, total_matrix);
legend('Nb total SKU', 'Nb SKU MP', 'Nb SKU CD', 'Nb SKU mixte', 'Nb Offre exclu', 'lo
datetick('x', 'mmm/yyyy')
```

```
axis tight;  
xlabel('Time');  
ylabel('Basis point as of 1st January');  
title('Cdiscount level aggregated results')  
delete(gcf);
```

## Per magazin aggregated reporting

```
for i=1:length(my_magasins)  
    disp(['Printing magazin ' num2str(i) ' from ' num2str(length(my_magasins)) ' m  
    filtered=magasin(magasin.magasin==my_magasins(i),:);  
    magazin_matrix=[filtered.nb_skus_total,filtered.nb_skus_mp,filtered.nb_skus_cd  
    my_legend={'Nb total SKU','Nb SKU MP','Nb SKU CD','Nb SKU mixte', 'Nb Offre ex  
    try  
  
        magazin_matrix=ret2price(price2ret(magazin_matrix));
```

## Reporting for a specific magazin

visualization

```
plot(filtered.report_date, magazin_matrix);  
legend(my_legend, 'NW')  
datetick('x', 'mmm/yyyy')  
axis tight;  
xlabel('Time');  
ylabel('Basis point as of 1st January');  
title(strcat('Magazin--', cellstr(my_magasins(i))))  
delete(gcf);
```

```
Warning: Ignoring extra legend entries.  
Printing magazin 2 from 35 magazines  
Warning: Ignoring extra legend entries.  
Printing magazin 3 from 35 magazines  
Warning: Ignoring extra legend entries.  
Printing magazin 4 from 35 magazines  
Warning: Ignoring extra legend entries.  
Printing magazin 5 from 35 magazines  
Warning: Ignoring extra legend entries.  
Printing magazin 6 from 35 magazines
```

```
Warning: Ignoring extra legend entries.  
Printing magazin 9 from 35 magazines
```

```
Warning: Ignoring extra legend entries.  
Printing magazin 11 from 35 magazines
```

```
Warning: Ignoring extra legend entries.  
Printing magazin 13 from 35 magazines
```

```
Warning: Ignoring extra legend entries.  
Printing magazin 16 from 35 magazines  
Warning: Ignoring extra legend entries.
```

*Printing magazin 17 from 35 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing magazin 18 from 35 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing magazin 20 from 35 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing magazin 21 from 35 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing magazin 22 from 35 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing magazin 24 from 35 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing magazin 28 from 35 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing magazin 29 from 35 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing magazin 30 from 35 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing magazin 32 from 35 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing magazin 34 from 35 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing magazin 35 from 35 magazines*

```
catch exception
    disp('Problem normalizing data');
end
end
```

*Printing magazin 1 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 7 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 8 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 10 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 12 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 14 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 15 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 19 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 23 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 25 from 35 magazines*  
*Problem normalizing data*  
*Printing magazin 26 from 35 magazines*

```
Problem normalizing data
Printing magazin 27 from 35 magazines
Problem normalizing data
Printing magazin 31 from 35 magazines
Problem normalizing data
Printing magazin 33 from 35 magazines
Problem normalizing data
```

## Per rayon aggregated reporting

```
for i=1:length(my_rayons)
    disp(['Printing rayon ' num2str(i) ' from ' num2str(length(my_rayons)) ' magazines'])
    filtered=rayon(rayon.rayon==my_rayons(i),:);
    rayon_matrix=[filtered.nb_skus_total,filtered.nb_skus_mp,filtered.nb_skus_cd,filtered.nb_skus_mixte,filtered.nb_offre_exclusif];
    my_legend={'Nb total SKU','Nb SKU MP','Nb SKU CD','Nb SKU mixte','Nb Offre exclusive'};
    try
        rayon_matrix=ret2price(price2ret(rayon_matrix));

        Problem normalizing data
        Printing rayon 2 from 534 magazines
        Problem normalizing data
        Printing rayon 3 from 534 magazines
        Problem normalizing data
        Printing rayon 4 from 534 magazines
```

## Reporting for a specific magazin

visualization

```
plot(filtered.report_date, rayon_matrix);
legend(my_legend,'NW')
datetick('x','mmm/yyyy')
axis tight;
xlabel('Time');
ylabel('Basis point as of 1st January');
title(strcat('Rayon--',cellstr(my_rayons(i))))
delete(gcf);
```

```
Warning: Ignoring extra legend entries.
Printing rayon 5 from 534 magazines
```

```
Warning: Ignoring extra legend entries.
Printing rayon 8 from 534 magazines
```

```
Warning: Ignoring extra legend entries.
Printing rayon 10 from 534 magazines
```

```
Warning: Ignoring extra legend entries.
Printing rayon 15 from 534 magazines
Warning: Ignoring extra legend entries.
Printing rayon 16 from 534 magazines
Warning: Ignoring extra legend entries.
```

Printing rayon 17 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 18 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 19 from 534 magazines

Warning: Ignoring extra legend entries.  
Printing rayon 24 from 534 magazines

Warning: Ignoring extra legend entries.  
Printing rayon 26 from 534 magazines

Warning: Ignoring extra legend entries.  
Printing rayon 29 from 534 magazines

Warning: Ignoring extra legend entries.  
Printing rayon 33 from 534 magazines

Warning: Ignoring extra legend entries.  
Printing rayon 35 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 36 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 37 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 38 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 39 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 40 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 41 from 534 magazines

Warning: Ignoring extra legend entries.  
Printing rayon 44 from 534 magazines

Warning: Ignoring extra legend entries.  
Printing rayon 47 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 48 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 49 from 534 magazines

Warning: Ignoring extra legend entries.  
Printing rayon 52 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 53 from 534 magazines

Warning: Ignoring extra legend entries.  
Printing rayon 55 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 56 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 57 from 534 magazines  
Warning: Ignoring extra legend entries.

*Printing rayon 58 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 60 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 61 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 62 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 64 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 65 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 66 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 67 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 72 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 74 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 77 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 80 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 87 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 92 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 93 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 94 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 95 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 97 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 98 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 99 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 102 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 103 from 534 magazines*

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*Printing rayon 105 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 106 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 107 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 108 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 109 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 111 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 112 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 114 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 115 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 117 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 119 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 120 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 124 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 128 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 129 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 133 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 140 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 141 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 146 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 147 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 148 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 151 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 152 from 534 magazines*



*Warning: Ignoring extra legend entries.  
Printing rayon 153 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 154 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 155 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 156 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 158 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 160 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 161 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 162 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 167 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 194 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 196 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 199 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 201 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 211 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 213 from 534 magazines  
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Printing rayon 214 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 220 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 224 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 227 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 228 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 230 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 233 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 237 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 240 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 241 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 242 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 245 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 248 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 252 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 255 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 256 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 258 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 260 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 262 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 263 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 264 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 265 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 266 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 268 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 279 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 280 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 281 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 287 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 289 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 290 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 296 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 298 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 302 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 304 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 305 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 310 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 312 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 315 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 317 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 324 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 325 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 327 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 330 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 332 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 334 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 338 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 349 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 350 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 352 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 353 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 355 from 534 magazines*

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Printing rayon 366 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 367 from 534 magazines  
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Printing rayon 368 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 369 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 370 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 371 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 374 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 376 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 382 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 386 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 387 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 388 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 389 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 390 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 391 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 394 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 397 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 400 from 534 magazines  
Warning: Ignoring extra legend entries.*

*Printing rayon 401 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 403 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 408 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 409 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 411 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 412 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 415 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 416 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 417 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 418 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 419 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 423 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 424 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 425 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 426 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 429 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 430 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 432 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 434 from 534 magazines  
Warning: Ignoring extra legend entries.  
Printing rayon 435 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 439 from 534 magazines*

*Warning: Ignoring extra legend entries.  
Printing rayon 442 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 444 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 445 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 447 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 448 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 449 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 451 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 452 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 454 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 456 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 458 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 459 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 467 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 469 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 470 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 481 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 483 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 490 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 493 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 496 from 534 magazines*  
*Warning: Ignoring extra legend entries.*  
*Printing rayon 497 from 534 magazines*

*Warning: Ignoring extra legend entries.*  
*Printing rayon 501 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 506 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 517 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 518 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 528 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 529 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 530 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 531 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 532 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 533 from 534 magazines*

*Warning: Ignoring extra legend entries.*

*Printing rayon 534 from 534 magazines*

`catch exception`

`disp('Problem normalizing data');`

`end`

`end`

*Printing rayon 1 from 534 magazines*

*Problem normalizing data*

*Printing rayon 6 from 534 magazines*

*Problem normalizing data*

*Printing rayon 7 from 534 magazines*

*Problem normalizing data*

*Printing rayon 9 from 534 magazines*

*Problem normalizing data*

*Printing rayon 11 from 534 magazines*

*Problem normalizing data*

*Printing rayon 12 from 534 magazines*

*Problem normalizing data*

*Printing rayon 13 from 534 magazines*

*Problem normalizing data*

*Printing rayon 14 from 534 magazines*

*Problem normalizing data*

*Printing rayon 20 from 534 magazines*

*Problem normalizing data*

*Printing rayon 21 from 534 magazines*

*Problem normalizing data*

*Printing rayon 22 from 534 magazines*

*Problem normalizing data*

*Printing rayon 23 from 534 magazines*

*Problem normalizing data*

*Printing rayon 25 from 534 magazines*

*Problem normalizing data*

*Printing rayon 27 from 534 magazines*

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