**Lezione 1:**

**Scala (Scalable Language) è un linguaggio di programmazione java-oriented/object-oriented e multi-paradigma (richiede una JVM), ed è un linguaggio molto usato in ambito big data.**

**La JVM (Java Virtual Machine) è un ambiente di esecuzione che è possibile aggiungere in un qualsiasi sistema operativo**

**L’ambiente REPL (Read-Eval-Print-Loop) è un tool scala analogo all’interprete command-line di molti linguaggi.**

**Utile per test e verifica di porzioni di codice, ed è di due tipi: riga comando e online.**

**Scastie è un playground interattivo collegato a REPL che ci permette di simulare qualsiasi versione di Scala.**

**Scala presenta diversi operatori, abbiamo quelli di Confronto, ovvero:**

* **== (uguale a);**
* **!= (diverso da);**
* **> (maggiore di);**
* **< (minore di);**
* **>= (maggiore o uguale a);**
* **<= (minore o uguale a).**

**Abbiamo quelli Logici, ovvero:**

* **&& (AND);**
* **|| (OR);**
* **! (NOT).**

**Abbiamo quelli Aritmetici, ovvero:**

* **+ (somma);**
* **- (sottrazione);**
* **\* (moltiplicazione);**
* **/ (divisione);**
* **% (resto della divisione);**
* **\*\* (esponenziazione).**

**E infine abbiamo quelli di Incremento, ovvero:**

* **++ (incremento di una variabile di 1);**
* **-- (decremento di una variabile di 1).**

**Scala ha due tipi di variabili, ovvero val e var.**

**Val rappresenta una variabile immutabile, il cui valore non può essere modificato dopo l’assegnazione iniziale.**

**Var rappresenta una variabile mutabile, il cui valore può essere modificato durante il ciclo di vita del programma.**

**Le Funzioni Anonime sono funzioni in scala senza nome, e sono definite dal simbolo “=>” che separa la lista degli argomenti della funzione dal suo corpo**

**Tutte le Collection class si trovano nel package “scala.collection” e possono essere mutabili e immutabili.**

**Esempi di collection:**

* **Map (“x” -> 24, “y” -> 25, “z” -> 26);**
* **LinearSeq (a, b, c);**
* **IndexedSeq (1.0, 2.0);**
* **Set (color.red, color.green, color.blue);**
* **SortedSet (“Hello”, “World”);**
* **Buffer (x, y, z);**
* **Trasversable(1, 2, 3);**
* **Iterable (“x”, “y”, “z”).**

**Codice riga di comando:**

**Immagine che contiene testo, schermata

Descrizione generata automaticamente**

**Immagine che contiene testo, schermata

Descrizione generata automaticamente**

**Lezione 2:**

**L’Interpreter Java fa parte della JVM e interpreta i file di classe Java.**

**Decodifica ogni bytecode ed esegue l’operazione corrispondente.**

**La List è una collection immutabile, dove ogni volta che si vuole creare o modificare una lista sarà necessario crearne una nuova.**

**L’Array è un tipo speciale di collection.**

**Il tipo dell’array è generico, cioè puoi avere un array[T], dove T type parameter or abstract type.**

**Supporta tutte le sequence operations.**

**L’array non è una sequenza, ma può essere wrappata come tale in quanto esiste una classe ArrayWrapper che si è fatto è una sottoclasse di Seq.**

**Map è un iterable, consistente di coppia chiave-valore.**

**Le operazioni che si possono fare sono simili a quelle del costrutto Set.**

**Le Eccezioni sono eventi anomali o situazioni impreviste che si verificano durante l’esecuzione di un programma.**

**Un’eccezione può essere gestita da vari fattori, come: errori di sintassi, errore di accesso ai dati, problemi di connettività di rete o errori di calcolo.**

**Scala ha un solo vero statement di loop: While.**

**While essendo non-functional viene spesso rimpiazzato da function map, anche se sulle collections è preferibile utilizzare il For.**

**ReadLine -> Leggere la riga di comando;**

**PrintWriter -> Scrivere su un file.**

**Una classe in Scala è una definizione di un tipo di oggetto che può avere proprietà, metodi e costruttori può essere istanziata per creare oggetti multipli.**

**Le classi possono avere campi mutabili o immutabili, a seconda delle dichiarazioni dei campi come var o val.**

**Le case class sono una forma speciale di classe utilizzata principalmente per modellare dati immutabili.**

**Utilizzate per rappresentare strutture dati complesse e sono ottimizzate per confrontare strutture e pattern matching.**

**Forniscono alcune funzionalità extra automaticamente generate come metodi equals, hashcode, toString e copy, che sono basati sui valori dei campi e non sull’identità dell’oggetto.**

**La classe astratta è una classe che non può essere istanziata.**

**In Scala, l’espressione Match è simile all’espressione switch di Java.**

**Match opera, a seconda del valore da confrontare, scegliendo l’operazione che deve processare.**

**Non è limitato in valori interi, ma può utilizzare qualsiasi tipo di dato.**

**Esempio di take e drop:**

**val hello = “Hello World”**

**hello.take(5) -> prende le prime 5 lettere in considerazione (Hello);**

**hello.drop(5) -> toglie le prime 5 lettere in considerazione(World).**

**Printf è una funzione che permette di formattare una stringa utilizzando specificatori di formato come %s, %d, %f, etc.**

**Puoi utilizzare printf per definire un modello di formattazione e sostituire i segnaposto con i valori delle variabili o espressioni utilizzando gli argomenti successivi**

**Println con l’interpolazione di stringhe stampa espressioni o variabili separate dalle virgole, covertendole in stringhe.**

**Puoi inserire i valori delle variabili direttamente nella stringa utilizzando la sintassi $variabile o ${espressione}.**

**![Immagine che contiene testo, schermata, software

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHV0ZW50ZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzU3AACSkgACAAAAAzU3AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+hqKKxv+EgLeJIdLWwnWOUSYuZfkDMgGQqnkjnrwPTNHWwGzRRRQAU1W3Mwx904/QH+tOqs91DbzhJn2tPLsj4PzNtBxntwDSbS3As0VX+2wefNDvJkgQPIoUnaDnHb26dajtNUtL2ZoYHcSqu4pJE8bY6ZAYDI9xS5o3tcdmXKKy5PEWlws6y3DK0b+W6mF9ynjqMZxyOenI5rUojOMvhdwcWt0FFVb3UrTT/K+2TeWZmKx/KTuIGccDr/Ook1qwk0+a9WYiC3JEpaNlZCOoKkZHX0q7MhyinZsv0VWmv7aCcQyybZDE02NpPyLjJ/UVSXxPpDsAt3nO0j90/RujdPu9t3T3oSb2E5xjuzWoqhea1YWM/k3M5VwoZgsbMEB6FiAQo9zipLzVLOwEJu5vLWZtqPtJXPuwGB+OKVmPmjrrsW6Kz4tc0+aznu0uMQW7bZGdGTacA9CATwR065qWy1O11AyC1kYvHjejxsjLnplWAOD607MFOL2ZbooopFBRRVa/muYLUtZWv2mYkKqFwij3YnsPYE+1AFmisTT9ceTwh/bGoIgdIpJJFiBAO0kYGc+lQ2Ot3y61b2GqJb7rqHzF8hWHktgnYxJO44B5GOnTmnbWxPMrXOhooopFBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVymrazpkXjXSRLqFqht0uEl3TKPLYhMBueCcV1dFHW4BRRRQAVl6xbSXOm3JtwTPDIs0IA5LKAQB9cY/GtSo4/vy/739BUyjzRaHF2dzEhjvxoOoXtvE8d/ds0qI64ZQOFGD3CgfjUGnQ/wDFQWs8MWpNF9ndHlvPMPznacYb7vQ9AAa6aisvYrmT7f1+PUvn0aOf01I5/EGsefZy7J3jKNNbMFcIoHUjH3hx+ddBUH2yD7cbPf8A6QI/N2YP3c4znp1qeqpRUY2vff8AMmTuzK1OGSXWtHdI2dI55C7BchP3TAE+nNZ11Y3U2l+JYo4HLzzExArjzB5SdM9eQRXTUVsnYwlTUt+/6W/U5q5eTUNVE1vaXQiXTp490sDJlyUwuGAOePTntmqT2N2dFlT7LNvOnWaBfLOdysdw+o7jtXTW+q2l1cmC3d3YEjcIn2HHXD42n8DT/t0J1H7EpLTLH5jhRkIO2T2zzgexojUTXu/1v/mTKhreT1/4CX6HOXdrc22sal5s2pJBeFWT7HbJMrjaFKklGKnjvgc1Pr1utvoul2aW91cxwzwbgsDSnYhGd20Ht+da93rFjYzmG6m2SBFcjYx4Zto6D14q9SjUTtbp+gOimpK+9/x3MXW7QzafDcWVuWKXUV1LGibXlCkZ4OMtgDg88Yosd974kl1FIJobdbUQAzxGMyNu3Z2sAcDpk+tbVFNO39fIp07yv/WmoVhXegG5vZJxBpLb2zmWwLufq28ZP4Vu0VlOnCpbmWxvGTjsIOBUN3cpaW5lkSV1BxiGJpG/75UE1PRWhJyWlWsmoeAp9JMFxBc+TIu24geMZZmK4LAA9unSjSoLm+1LT5Z7W4ilt3kubuSaJkHmMuxUUn7wA4yMjCj1rraKd9bk8uiCiioRd25ujbCeI3AXcYt43geuOuKm6RRNRTUkSVS0bq4BIJU55BwR+dRi6hZZisgbyCRJjnaQM4/I0XSAmoqnY6rZ6izCzm8wqiufkYYDDK9R6VcoTTV0AUUUUwCiiigAooooAKKKKACiiq1nfQXyyeQTuicxyIwwyMOxH6+4NAFmiikZtq5NAC0VF56+ho89fQ1PMh2ZLRUXnr6Gjz19DRzILMloqLz19DR56+ho5kFmS0VF56+ho89fQ0cyCzJaKi89fQ0eevoaOZBZktFReevoaPPX0NHMgsyWiovPX0NHnr6GjmQWZLRUXnr6GpAcgH1ppp7CFooopgFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVy2raXZWmo2A0yLbq1xeLJ524tIYwcyFmJyU28YPHIArqawbbRdUttTuLz+07WV53+ZpLJi4jB4jB8zAA+nXk5oW6Dob1FFFABWRq9xdQNbJZzCF57xYmYoG+Uoex+grXrH1mylvmtUh8wbL1Xd42wUUIef1FZVb8undfmrlwtfULCW7OoahptxdvKYkR4rjYodQwPUAbcgj0qroMusahbWd9cXqGEllki8tRvUZAOcdc+mBitS10tLRbgpcTvPcffuHKl+BgY42jHYYxRpWmLpNn9miuJpowcqJtvy9zjAHc96yjTnzxve1n189PXTQpyjZ2/rTUro91D4lFu95JNBLbvKI3RAEIZQACFBxg9yaiuJL+41e+t7e+NtFBAjrtiVm3Hd6g8cf/qqw+jM+pC9/tK8WQAqqjy9oUkEr9zpwPf3q0tjGt5cXIZ99wiowyMALnGPzNHLNxtqtX19fMOaKd/66GBq0k+o+DLa7a4eJnWFpFjVcOS6+oOMHnit7yLqKxaOK782ftNcRg9+6pt7VH/ZNudFXTGLtAqBA275hjoc+uQDU1rbPbRlZLqa5JOd823I9vlAFUqb5231XcTkuWy7mX4SW6GgWpnlhaIx/u1SMqw5PUljn8hS+Fx5lhdXMn+vnvJjKe+VcqB+CqBWnYWUenWMVpCWaOJcKXOSarWlhLY6ncPbshs7kmV42JDRy8ZK+obqR2P1rSjHkgo+RFR80r+ZLc6VZ3kxluYd7lVQncRwrbgOD681U1Oa8Os2FlaXP2dJ45WkYIGPy7cYz35Ptz0rXqtLZRy6hb3jMwkt0dFAIwQ2M5/75FKcNLR01EYsep3y6Vl5980WpC1MuxQXTzAvIxjOD2qTVtTu7abVVgl2i3skliG0HaxLZPv0FXm0S3aznt/MlAmuDcbww3I+7dkcdiO+ajbQIJVu/PubmZ7uEQyu7LnAzjACgDr2GPasuWryqPW3f+7b89Q6/wBd/wDIy/t2p29+yyX5ljivIYSphQbxIoJyQO2eMfiTTbnXLuSe/kt57lWtZWjhtYrJpEl29dzhTyTxwRjitqTRbeSZ5GeXc88c5wR95AAB06cc0kmjIbqWa3u7q2EzBpY4XAVz68gkH6EVDp1rWT6v9Lden9IXT+vMqardaguoaYljcGEXhZHjkRSE+Xdu6Z3D0zjii4l1KytbOzluw91dXRi+07FyifMwOMAbsADpjNXb/SRfXttcm8uYGtiTGsWzGSMEncp7HFTX9hFqECxys6MjiSOSM4aNh0IrTkleT1379NL2/H7xlTTbi5XVLzT7uc3PkqkkczIFYq2eDgAZBHYCrFhFqEU12dQuY5o3lJtwiY2J6H1NLY6dHYtLIJZZ5piDJNMQWbAwBwAAB6AUlhpcOnTXckMkrm6lMriR8gE9h6CrjGStfz6/d6iLtcbrEFxp+prtmhiWS5e4FwNzSorLsPygds4HJydoxXZVn3GjW919oaV5fMnZD5gYbo9vK7eOMHn6k5pVqbmlb+v6su3qPoZxvFc6ZpuhT/Z4ZvMDSiPLoI8ZXaw4Yk85FTaDE4k1aK4k85vtZDOV27h5adh7VMfD9v5MQS4uEnilaUXKsvmFm+9njGD6YxVnT9Ni05ZhFJLIZ5PMdpW3EtgD+lTCE+e8/wDgdOn3i7f13HWem2lgSbSLy8oqH5iflUYUcmrVFY1npcyeLtR1SUMsckMcMQ35DADJOO3PH5+tdKSWgbbGzWTqk15/a9hZ2lz9nS4WUyMEDH5QpGM9+fpz0rWqtLZRzX9vdsWElurqoB4O7Gc/lTW4pJtWRhjU76LSm33PmTQ6mlqZSiguhkUHIAxnBxwKn1TUru3udVWGXatvYCaIbQdr5bnpz0FXX0S2e0uLcvKBPcfaN4YbkfIIK8diB1zUZ0CFxdGe6uZpLuDyJZHZc7eegCgA89hinpb+u3+ZjyzT0/rV/pYyG1DVYLgl9QMiRz2oKeSg3CUgMM46Dt39SaS7127e61Bre4uI2tJTHDbRWLSpMVAJ3OFOMk44IxW3JodtKzFnlG54XOCOsRyvb25/pRLoqNdyz295dWvnENNHA4CyHpnkEg4A5BHSndX/AK8v+CQ6dS2j/rXz9Cnq91qK32kiwnMH2xjHJFJGpC/IW3dM5GOmccUXM2p2NnaWct4JLu7ujELny1OxOWzgADdtGOmM+tXdR0cahd21wb25t3tiWjEOzGSCCTuU9iRU9/YRajbrFMXQo4kjkjbDIw6EGldaF8kry/D7inplzcpq95pt3ObryUjljmZArENkYO0AcFfQdaif9z44i8rgXNi/mgd9jrtP/jxFXrDTY7B5pPNluJ5yDJNMQWbHQcAAAegFR2NhMmoXGoXzI1zKBGixklYowchQT1JPJP8A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**![Immagine che contiene testo, schermata, software, computer

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHV0ZW50ZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzg1AACSkgACAAAAAzg1AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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ZGVmZ2hpanN0dXZ3eHl6g4SFhoeIiYqSk5SVlpeYmZqio6Slpqeoqaqys7S1tre4ubrCw8TFxsfIycrS09TV1tfY2drh4uPk5ebn6Onq8fLz9PX29/j5+v/EAB8BAAMBAQEBAQEBAQEAAAAAAAABAgMEBQYHCAkKC//EALURAAIBAgQEAwQHBQQEAAECdwABAgMRBAUhMQYSQVEHYXETIjKBCBRCkaGxwQkjM1LwFWJy0QoWJDThJfEXGBkaJicoKSo1Njc4OTpDREVGR0hJSlNUVVZXWFlaY2RlZmdoaWpzdHV2d3h5eoKDhIWGh4iJipKTlJWWl5iZmqKjpKWmp6ipqrKztLW2t7i5usLDxMXGx8jJytLT1NXW19jZ2uLj5OXm5+jp6vLz9PX29/j5+v/aAAwDAQACEQMRAD8A+hqKKxv+EgLeJIdLWwnWOUSYuZfkDMgGQqnkjnrwPTNHWwGzRRRQAU1W3Mwx904/QH+tOqs91DbzhJn2tPLsj4PzNtBxntwDSbS3As0VX+2wefNDvJkgQPIoUnaDnHb26dajtNUtL2ZoYHcSqu4pJE8bY6ZAYDI9xS5o3tcdmXKKy5PEWlws6y3DK0b+W6mF9ynjqMZxyOenI5rUojOMvhdwcWt0FFVb3UrTT/K+2TeWZmKx/KTuIGccDr/Ook1qwk0+a9WYiC3JEpaNlZCOoKkZHX0q7MhyinZsv0VWmv7aCcQyybZDE02NpPyLjJ/UVSXxPpDsAt3nO0j90/RujdPu9t3T3oSb2E5xjuzWoqhea1YWM/k3M5VwoZgsbMEB6FiAQo9zipLzVLOwEJu5vLWZtqPtJXPuwGB+OKVmPmjrrsW6Kz4tc0+aznu0uMQW7bZGdGTacA9CATwR065qWy1O11AyC1kYvHjejxsjLnplWAOD607MFOL2ZbooopFBRRVa/muYLUtZWv2mYkKqFwij3YnsPYE+1AFmisTT9ceTwh/bGoIgdIpJJFiBAO0kYGc+lQ2Ot3y61b2GqJb7rqHzF8hWHktgnYxJO44B5GOnTmnbWxPMrXOhooopFBRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVymrazpkXjXSRLqFqht0uEl3TKPLYhMBueCcV1dFHW4BRRRQAVl6xbSXOm3JtwTPDIs0IA5LKAQB9cY/GtSo4/vy/739BUyjzRaHF2dzEhjvxoOoXtvE8d/ds0qI64ZQOFGD3CgfjUGnQ/wDFQWs8MWpNF9ndHlvPMPznacYb7vQ9AAa6aisvYrmT7f1+PUvn0aOf01I5/EGsefZy7J3jKNNbMFcIoHUjH3hx+ddBUH2yD7cbPf8A6QI/N2YP3c4znp1qeqpRUY2vff8AMmTuzK1OGSXWtHdI2dI55C7BchP3TAE+nNZ11Y3U2l+JYo4HLzzExArjzB5SdM9eQRXTVDc3UdpD5swkK5x+7iaQ/koJrVyUVdmLpKb+f6WMC5eTUNVE1vaXQiXTp490sDJlyUwuGAOePTntmqT2N2dFlT7LNvOnWaBfLOdysdw+o7jtXWWt1De2sdzavvikGVbBGR9DzU1Upaaf1v8A5kOjdu71/wCAl+hyd3a3NtrGpebNqSQXhVk+x2yTK42hSpJRip474HNT69brb6LpdmlvdXMcM8G4LA0p2IRndtB7fnW5dX0Fm8CSkmSeQRxooyzHvx6Ack9hVmhStby/QHRTUlfe/wCO5i63aGbT4biytyxS6iupY0Ta8oUjPBxlsAcHnjFFjvvfEkuopBNDbraiAGeIxmRt27O1gDgdMn1rVubmKztZLm5bZFEpZ2wTgD2HNR2l/bX3mfZZN/lNsf5SMHAOOR6EVKmr8vX/AD0KdO8ub+tNSzWFd6Abm9knEGktvbOZbAu5+rbxk/hW7RWc6cKluZbG8ZOOwg4FQ3dylpbmWRJXUHGIYmkb/vlQTU9FaEnJaVayah4Cn0kwXEFz5Mi7biB4xlmYrgsAD26dKNKgub7UtPlntbiKW3eS5u5JomQeYy7FRSfvADjIyMKPWutop31uTy6IKKKKRQUUUdKACiqOm6rb6n9o+zuhMErRkK4bOO/HY1epRkpJSWzAKKKKYBRRRQAUUUUAFFVL3U7TTigvJfL3q7r8hOQgy3QdhUj3ca2Ju0DyR+X5gCISzDGeB1z7VPNFtpPYCeiore4iu7eOe2kWSKRQyOvQipaoAopruExnPPpTPPX0NLmSHZktFReevoaPPX0NLmQWZLRUXnr6Gjz19DRzILMloqLz19DR56+ho5kFmS0VF56+ho89fQ0cyCzJaKi89fQ0eevoaOZBZktFReevoaPPX0NHMgsyWiovPX0NKJlJAweaOZBZklFFFUIKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAK5bVtLsrTUbAaZFt1a4vFk87cWkMYOZCzE5KbeMHjkAV1NYNtouqW2p3F5/adrK87/M0lkxcRg8Rg+ZgAfTryc0LdB0N6iiigArI1e4uoGtks5hC894sTMUDfKUPY/QVr1j6zZS3zWqQ+YNl6ru8bYKKEPP6isqt+XTuvzVy4WvqFhLdnUNQ024u3lMSI8VxsUOoYHqANuQR6VV0GXWNQtrO+uL1DCSyyReWo3qMgHOOufTAxWpa6WlotwUuJ3nuPv3DlS/AwMcbRjsMYo0rTF0mz+zRXE00YOVE235e5xgDue9ZRpz543vaz6+enrpoU5Rs7f1pqV0e6h8Si3e8kmglt3lEbogCEMoABCg4we5NRXEl/cavfW9vfG2iggR12xKzbju9QeOP/ANVWH0Zn1IXv9pXiyAFVUeXtCkglfudOB7+9WlsY1vLi5DPvuEVGGRgBc4x+Zo5ZuNtVq+vr5hzRTv8A10MDVpJ9R8GW121w8TOsLSLGq4cl19QcYPPFdFbxSQQbJriS4bn95IFBP/fIA/Sq/wDZNudFXTGLtAqBA275hjoc+uQDU1pbPbRlZLqa5JOd023I9vlAFXGm1Ucn1S/qwnJONij4Y/5Fiy/65/1NZtnf6mbHSb6e+8wXc6xSQ+UoXac85xnPHrj2ra0/S101THDcztByEhcqVjBOeOM/mTTI9Ft47GztVeXZZyLJGSRkkZ68dOaz9nUtC2lrdfNfpcrmjd+f/BKtqPO8aX7y8m3tYUhz2VixY/iVH5VJrs1/D9m+x+esBc/aJLaJZJUGOMKQcjPXgmprqwm/tWHULFkWUL5UyOSFljznqOhByR9SO+RNe2LXbI0d5c2rJnmBhzn1DAg/lXYuhzSTadiCwMGqaK0ct19vikDRu7J5bEdCrAYwR06Cp1tYbC3uWtE8svmRuScsFxnn2ApdP0+LTbYwws77nMjvI2WdieSTViRBJGyN0YEHFROKd3HcqndJcxztleakF0a5ub3zlvsLJD5SqozGWBBAznj1x7CpZtTu00jW51lxJazOsLbR8oCgjtz171oLpMCQWEQeTbYEGLkZOFK88eh7YqC68PwXX2pTdXUUN2d0sMbKFLYAznGew4zj2rBxmr28+vkv1uEel/63M69v9S/tG6W3vfKjhlto1TylYHzMA579802TWry303y3ndpm1B7QXAg3sqrk7tijk4GOlbD6NbyTzSl5d00kUjYIwDHjbjj25pG0O1a1lhLyjzLhrlZAwDRyE5ypxxWfs6t20+/XzX6XXQOn9ef/AACDSbq5u2vLd5rl0QL5N1LbeU/zA5GGUAkEemOaq6BLrOoW1pe3F8ph3OskXlqN6jIDZA+9nHTAxWxBZPBBKhvbmV5P+WshUsvGOAFCj8qZpOlrpFp9miuZ54wSVE235cnJxtUdz3rRQnzRvfRfjdW6+v8AwQMX+1NQ/sddd+1fummH+h+Wu3yy+zGcbt3fOce1beoxahKbb+zbiOALMGn3pnencD/P41XHh62Ev+uuPswl84Wm8eUHznOMZxnnGcZ7VY1HS4dSNsZ5JU+zTCZfLfbkjsfalCFRRtLy6/e79vL/ADH3LtVNUsjqOlXNmsnlGaMqHxnH/wBardRXNut1bvC7yIGH3o3KsPcEV0TjzRcX1Gtzl/DMsVtqM1peWMMN2ZphFPEoKNgjcqnqMcHBqSzv9UNhpN/PfeYLq4WGSHylClTkZzjOeM9ce1XtH0D7DdTXN3NLcTebIYmkYHarHk4AA3HHNWo9Ft47CztFeXy7OVZYySMkgk88dOa46dOryQv0t+a3+Vybb/MqS6hdKviDEv8Ax5rmD5R8n7kN6c8881Rv9T1Jctb3nlCLTY7ojylbe+4g5yOh9vwxWtdaFDdS3TfabmFLtQs8cTKFfAxnJBIOOOCOlLLoVtMHDPMN9qLU4I+4DnPTrVezqt6vT1/xf5x+7yH/AF+Rkz6ze2EN9DJcGaVLqKCOYw5KB0DE7FHOMnA5PTrV7SL24nvbi2eW6uIBGHS5ntTCwbJBXlVB7HpVqXRLWb7X5hkP2p0kYhsFGUAKVI6HgGprSye2V997c3LOAN0xX5foAAP0pwhVU7yen9efzvb5iMbSn1q+dnOoL5VrfPCwaNQZo1Y5JIXr0AxjvST3+ozWmp6lb3fkx2MsiJbeWpVxH97cSM5PPQjHHWtXS9JXShMEu7icTSGRhNs4YnJI2qOtRXGgW880x8+4jhuGDz28bgRynuTxkZxzgjNSqdX2aV3e3frZa+mj08xliSztNVt4ZrqHfmI7QWIwHXDDj2NW441hiSOMYRFCqPQClACqABgDgAUy4Mwt5DaqjTbTsEjEKT7kA8V2Wim2luJeZkaB+6vtZtk/1MV5lB2XciswH4kn8a26paXp4060MbSGaaRzLNKRjzHbqcdh2A7ACrtMEUtVuPsljLcYz5aMwB7n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**Codice riga di comando:**

**![Immagine che contiene testo, schermata, Policromia

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHV0ZW50ZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzc0AACSkgACAAAAAzc0AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**![Immagine che contiene testo, schermata

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHV0ZW50ZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzE5AACSkgACAAAAAzE5AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**![Immagine che contiene testo, schermata, schermo

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHV0ZW50ZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzYyAACSkgACAAAAAzYyAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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kbRTXn/wTpoUnPmUOl3/AFfzZZjnt8xTNOFKW7ReXtJO7DD0xjmmi7j86DdIdiWzRkYOAxVhj8yKr21jLc5YI6xBWJk2ErwCcZ/DFQ+VJuA8tsldwG3qPX6U+WN9/wCtT0/rFeMYy5dL+erVvPyRoJcQCSK4M2PLg8sw7TknGMdMYPXrWZUggmMJlETmIdXCnaPxqZbWJrYSG5QN5bPsxzkHAHXv1pq0TGbq11a1ra9r7K+r9Nie3/caFdvJwLhkjiB/iKnJI+nA/wCBVnVakgdtOiuFmMiIxjdD/wAsiSSB9Dyfrn8atKFtX5nn00tX5/8AACiiitDQKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKsH/AJB6/wDXU/yFV6mK/wChq+5v9YRtzx0FbU78svT9URLoQ1ualLZ6jptjJFqEcLWloITaSpJuLAkkqVUrhs55I5zWHVqLTL+eze7hsriS2jzvnSJii465bGBXHUjFtSbtb+uprFtbHTWOpaLaabuE8XnNpskDFxcNOJGVht6+WEyeOp6e5FH7Tp8+ghNTuLOeaG2KW3kLMtxGc5VWyojKgk56nB4PSsddNvnsWvVsrhrReDcCJvLHOPvYx1pU0vUJLE3sdjctarkmdYWMYx1+bGK5lh6Sd+d791v2/wCAaKcrJW/rT/I6R9cszp0M1r/ZyXCad9keO4W580/KVYLtPlkHqM45PPPNchVkadetYm9WzuDaKcG4ETeWDnH3sY61WrehShTvyO/9bESk2lc0IzBFp7LFcxiaVf3m5XyB/dHy457ms+iit0rF1KrqKKslZW0NM6nbmw8j7H8/l7PMxD1xjP8Aqt3/AI9n3psd5Da6U9uh+0PcjLq4OyH0IHd/foBxz2zqlktpYYYpZEIjmBKN1DYOD+I9Ky9nBaHF7KmtPMirormeO28iaa6DEacsaWwDE5aPHPG3HOevaudq1Ja3zwfaJYLhokUDzGRiqjAxz6YIxRUgpNXYVYKTXM7Fm61N8Wf2Wdv3Nr5RGOFJyGGD6g9aP9GGgGH7bD5xlE3l7ZM424xnbjP4496piyumhaYW0xiUbi4jO0D1zUj2LRaWl3J5qGSTaitCwVlxncH6H0xU8sFZJ9SeSmrJPr/wS+dRgacbpiUXTvIAIOA+zGPz/CqsjwXGj2yfaEjlt94Mbq2XycjBAI/Miq5sbsW5nNrMIQATJ5Z2jPTnp3H51NNo1/DZx3L2svlupYny2+QDu3HHrS5acWve/r+mLlpRatL8vP8AzJf9GGgGH7bD5xlE3l7ZM424xnbjP4496nOowNON0xKLp3kAEHAfZjH5/hVF7SIaUt5FM7N5nlujRgAHGeDk5/IVGbG7FuZzazCEAEyeWdoz056dx+dHJB7sOSnK931f9bFm4/f6FZtEMi3Z45QP4SxypP1GR/wGs6rUcDrp0tw0pjR2EaoP+WpBBI+g4P1x+AtrE1sJDcoG8tn2Y5yDgDr361pG0U15/wDBOmhSc+ZQ6Xf9X82Wo57bdHM8+3bbGIR7TkNtI+mDnP40kc9vmKZpwpS3aLy9pJ3YYemMc1n+VJuA8tsldwG3qPX6U77NP5Rk8iTywMlthxj603Fdz0o4qr0gtNeu+mu/kvLyL/2yLyI3j+ziRIPLKyCTceCCBj5ec9/WsurBtitj9ofeuX2qDGcMPXd07dKYlvNJE0qQyNGv3nCkgfjTikrmVeVWryqUel9Pzf3Fy3/caFdvJwLhkjiB/iKnJI+nA/4FWdUxiuZLcSFJWhjGA2CVUZ9eg5NSLaxNbCQ3KBvLZ9mOcg4A69+tJWjdvqzlp4eo23bfXtpoupVoqw1r/oC3Ub713bJVxgxnt9QQDz7H8a9WmnsQpJ7BRRRTGFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVYP/ACD1/wCup/kKr1MV/wBDV9zf6wjbnjoK2p35Zen6oiXQhrc1KWz1HTbGSLUI4WtLQQm0lSTcWBJJUqpXDZzyRzmsOrb2if2Yt3FKW/eeXIjJjaSMjBycjg+lcdSKbi27WL51DfrodLY6lotppu4Txec2myQMXFw04kZWG3r5YTJ46np7kUftOnz6CE1O4s55obYpbeQsy3EZzlVbKiMqCTnqcHg9K52isVhIp35ne99/+Bsa+0drW/rT/I699cszp0M1r/ZyXCad9keO4W580/KVYLtPlkHqM45PPPNchRRWtGhGjflb17kyk5JIKKunWNTIIOo3ZB6jz2/xqlWq5uplHm+0jTOp25sPI+x/P5ezzMQ9cYz/AKrd/wCPZ96bHeQ2ulPboftD3Iy6uDsh9CB3f36Acc9s6io9lDoZ+xhsvUK6K5njtvImmugxGnLGlsAxOWjxzxtxznr2rnac8jyEGR2cqAo3HOAOgonT52rhUpe0auaN1qb4s/ss7fubXyiMcKTkMMH1B60f6MNAMP22HzjKJvL2yZxtxjO3Gfxx71mUUeyVkkHsYpJLobR1GBpxumJRdO8gAg4D7MY/P8KqyPBcaPbJ9oSOW33gxurZfJyMEAj8yKz6KSpJWt/X9XEqMVaz2/4P+Zp/6MNAMP22HzjKJvL2yZxtxjO3Gfxx71OdRgacbpiUXTvIAIOA+zGPz/CsWij2Ke7D2EXu/wCmaNx+/wBCs2iGRbs8coH8JY5Un6jI/wCA1nU5XdVZVZgrjDAH7wznn8abVxjyqxpCPKmv61NOOe3zFM04UpbtF5e0k7sMPTGOaaLuPzoN0h2JbNGRg4DFWGPzIrOoo5Eeh9dqJKyXR9dbW8/JF1fJ/st4zcxiRnWQJhs8AjHTGeaSZop7WErOqGKPaYmDcnJORgY5z3xVOiny63M/rD5eXlVrW6979/8AgGmlxAJIrgzY8uDyzDtOScYx0xg9etZlFFCjYmrWlVSTX9af5Gjb/uNCu3k4FwyRxA/xFTkkfTgf8CrOpzO7KqszFUGFBP3RnPFNojG133OWMbNvuFFFFUWFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFSfZ5t2PJkzs8zG0/dxnd9Md6kNjdi3M5tZhCACZPLO0Z6c9O4/Op5l3J5orqV6KtvYtFpaXcnmoZJNqK0LBWXGdwfofTFRpZ3Ulu1wltM0K/elEZKj8elHPF9RKcWr3IKsH/kHr/wBdT/IUn2O5+y/afs832f8A567Ds6469OvFQ7jt25O3OcZrWnUSUl30/FBpLZ7CVowER+H7h2USB51QK3RTtY7hjnI+uOeQeKzqle4mlhSKSaR44/uIzEhfoO1Yzi5WQTi5WRFRRRVlhRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBui7siouGugHNgbfyfLbcH2FeTjGOOuT16d6YdRgacbpiUXTvIAIOA+zGPz/CsWisPYR7nN9Xj3Zp/6MNAMP22HzjKJvL2yZxtxjO3Gfxx70l68F5a28kd0iGG3WMwOrbtw67cAjB68kdazaKpU7O9y1SSd7ve/T/I3Pttr53237SP+PTyfsm1t2dmzGcbdufm659s1h0UU4U1DYqnTUNgooorQ0CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKnFldNa/aVtpjAOsojO3069KEs7qS3a4S2maFfvSiMlR+PSp5o9yeePcgoqYWdybU3It5fIHWXYdo5x16dame0iGlLeRTOzeZ5bo0YABxng5OfyFHPFCc4rr5FOiphZ3JtTci3l8gdZdh2jnHXp1pJLaWGGKWRCI5gSjdQ2Dg/iPSnzLuPmj3IqKKKZQUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAGs01rLpgF5Lbyyxw7IfKEglU5yFOQEIGTnv71HevBeWtvJHdIhht1jMDq27cOu3AIwevJHWs2isVSSd0zBUUndNnQQXmnQ2TbZY/MeyaIlvNMm8r0/uBc9MZ7e5FL/RhoBh+2w+cZRN5e2TONuMZ24z+OPesyikqKXViVBJ3u97nQQXmnQ2TbZY/MeyaIlvNMm8r0/uBc9MZ7e5FCO8htdKe3Q/aHuRl1cHZD6EDu/v0A457Z1FCoxXVgqEVu2wooorc6AooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKAP/9k=)**

**Lezione 3:**

**Le classi possono ereditare attributi e metodi usando la key-word extends.**

**Spark è un framework di elaborazione distribuita e calcolo parallelo progettato per affrontare problemi di analisi e elaborazione di dati su larga scala.**

**Lo SparkContext è il punto di entrata principale per le funzionalità di spark e rappresenta la connessione al cluster e può essere usato per creare gli RDD.**

**Il processo driver è un processo che esegue la funzione main(), coordinando gli executors;**

**Il processo executor risiede nei nodi worker, ed elabora le richieste del driver.**

**Il Cluster Manager è un software che gestisce le risorse del cluster e coordina l’esecuzione delle applicazioni su di esso.**

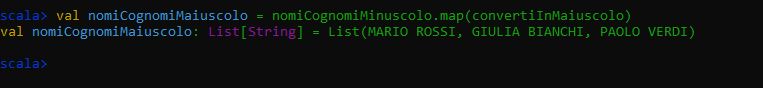
**Il RDD (Resilient Distributed Datasets) è una raccolta di elementi fault-tolerant su cui si può operare in parallelo.**

**E’ possibile creare un RDD con la parallelizzazione della raccolta oppure facendo riferimento a un set di dati in un sistema di archiviazione esterno, come l’HDFS.**

**Codice riga di comando:**

**![Immagine che contiene testo, schermata

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHV0ZW50ZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzc0AACSkgACAAAAAzc0AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Lezione 4:**

**Una trasformazione è ogni operazione di Spark che restituisce un RDD (quando richiamata da un Dataframe o un Dataset restituisce la stessa tipologia di struttura dati).**

**Le trasformazioni sono eseguite in modo lazy.**

**Esempi di trasformazione sono map(func), filter(func), flatMap(func), mapPartitions(func), etc…**

**Map() è un’operazione che viene utilizzata per applicare la trasformazione a ogni elemento di RDD.**

**Essendo una trasformazione, avrà come risultato un nuovo RDD.**

**La trasformazione Spark flatMap() appiattisce la colonna RDD dopo aver applicato la funzione su ogni elemento e restituisce rispettivamente un nuovo RDD.**

**La trasformazione filter() permette di filtrare un RDD definendo una condizione tramite lambda expression.**

**Trattandosi di una trasformazione, il risultato sarà un nuovo RDD, potenzialmente con meno elementi.**

**La trasformazione join() permette di joinare due RDD definendo una condizione.**

**Il metodo groupBy() serve per specificare l’elemento della riga (quindi il sotto-elemento dell’RDD).**

**La trasformazione groupByKey() permette di poter eseguire funzioni di aggregazione.**

**Il metodo mean() permette di calcolare la media aritmetica devi valori contenuti in un RDD.**

**Le azioni, invece, non sono eseguite in modo lazy.**

**Quando inseriamo un'azione nel codice e Spark raggiunge quella riga di codice durante l'esecuzione del lavoro, dovrà eseguire tutte le trasformazioni che portano a quell'azione per produrre un valore.**

**Mentre le trasformazioni restituiscono uno dei tipi di dati di Spark, le azioni restituiscono un conteggio di elementi (ad esempio, la funzione count), un elenco di elementi (collect, take, etc...) o memorizzano i dati in un archivio esterno (write, saveAsTextFile e altre).**

**Come abbiamo già detto, esempio di azioni sono reduce(func), collect, count(), first(), take(n), foreach(func), etc…**

**Il metodo collect() è un’azione che restituisce tutti gli elementi dell’RDD Questo metodo sfrutta la memoria del driver, quindi è sconsigliato usarlo quando l’RDD è molto grande.**

**L’azione first() è un’azione che restituisce il primo elemento dell’RDD**

**Il metodo take() è un’azione che restituisce il numero di elementi, passato come parametro, dell’RDD.**

**Lezione 5:**

**Un DataFrame è un insieme immutabile di records organizzato in colonne.**

**Rappresenta i dati come una tabella strutturata: può leggere e scrivere dati in diversi formati strutturati (ad esempio, JSON, tabelle Hive, Parquet, Avro, ORC, CSV).**

**Può essere usato con SparkSQL, e fornisce il motore su cui sono costruite le API strutturate di alto livello.**

**Per creare un DataFrame, acquisendo i dati in lettura da un file, è necessario utilizzare l’oggetto SparkSession.**

**Nel metodo csv() è possibile specificare il percorso di un file o un percorso di un folder che deve contenere i diversi file da cui leggere i dati.**

**Il metodo show() mostra i primi elementi del DataFrame, mentre il metodo printSchema() mostra lo schema dei dati.**

**Per definire uno schema è necessario creare un oggetto di tipo StructType().**

**Il metodo Il metodo withColumn() permette di creare una nuova colonna.**

**Il metodo drop() permette di rimuovere una colonna.**

**Il Dataset è una struttura dati che ha caratteristiche in comune sia con i Dataframe che con gli RDD.**

**Deve essere tipizzato come gli RDD e il Dataset deve essere tipizzato come una case class.**

**Un Dataframe è un Dataset di Row.**

**Le Aggregazioni sono operazioni che consentono di calcolare valori aggregati basati su uno o più attributi del DataFrame.**

**Spark SQL è utilizzato per l'esecuzione di query SQL.**

**Spark SQL può anche essere utilizzato per leggere i dati da un'installazione Hive esistente.**

**Quando si esegue SQL da un altro linguaggio di programmazione, i risultati vengono restituiti come Dataset/DataFrame.**

**È inoltre possibile interagire con l'interfaccia SQL tramite la riga di comando o tramite JDBC/ODBC.**

**Le UDF (User-Defined Functions) sono una caratteristica fondamentale del framework di elaborazione dei dati Apache Spark.**

**Le UDF consentono agli utenti di definire funzioni personalizzate per operare su dati all'interno di Spark, e consentono anche di eseguire operazioni complesse e specifiche che non sono fornite nativamente da Spark.**

**Codice IntelliJ IDEA:**

**HelloWorld:**

object HelloWorld  
{  
 def main(args: Array[String]):Unit={  
 *println*("Hello, world!")  
 }  
}

**HelloWorld2:**

object HelloWorld2 extends App  
{  
 *println*("Hello, world!")  
}

**Calcolo modulo tre con una sequenza di numeri (filter):**

import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object Calcolo\_modulo\_3\_sequenza\_numeri extends App  
{  
 Logger.getRootLogger.setLevel(Level.WARN)  
  
 val conf = new SparkConf().setMaster("local[\*]").setAppName("Test Parallelize")  
 val sc = new SparkContext(conf)  
  
 val sequenza = Seq(25, 13, 45, 67, 31, 29, 30, 78, 21, 33)  
 val operazioneRDD = sc.parallelize(sequenza)  
 val operazioneRDD2 = operazioneRDD.filter(sequenze => sequenze % 3 == 0)  
 operazioneRDD2.foreach(println)  
}

**DataFrameDB\_Insert:**

import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.Row  
import org.apache.spark.sql.types.{IntegerType, StringType, StructType}  
import org.apache.spark.sql.{SparkSession}  
  
  
object DataFrameDB\_Insert extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 // Senza lo SparkSession non posso creare uno spark DataFrame  
 val *spark* = SparkSession.*builder*()  
 .appName("DataFrameExample")  
 .master("local[\*]")  
 .getOrCreate()  
  
 val *structureData* = Seq(  
 *Row*("James,,", "", "Smith", "36636", "NewYork", 3100),  
 *Row*("Michael,", "Rose,", "", "40288", "California", 4300),  
 *Row*("Robert,,", "", "Williams", "42114", "Florida", 1400),  
 *Row*("Maria,", "Anne,", "Jones,", "39192", "Florida", 5500),  
 *Row*("Jen,", "Mary,", "Brown", "34561", "NewYork", 3000)  
 )  
  
 val *structureSchema* = new StructType()  
 .add("firstname", StringType)  
 .add("middlename", StringType)  
 .add("lastname", StringType)  
 .add("id", StringType)  
 .add("location", StringType)  
 .add("salary", IntegerType)  
  
 val *df2* = *spark*.createDataFrame(  
 *spark*.sparkContext.parallelize(*structureData*), *structureSchema*)  
 *df2*.printSchema()  
 *df2*.show(false)  
  
 import *spark*.implicits.\_  
 val *df3* = *df2*.map(row => {  
 val fullName = row.getString(0) + row.getString(1) + row.getString(2)  
 (fullName, row.getString(3), row.getInt(5))  
 }).toDF("fullName", "id", "salary")  
  
 *df3*.printSchema()  
 *df3*.show(false)  
}

**DataFrameDB\_Insert2\_Array:**

import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.Row  
import org.apache.spark.sql.types.{ArrayType, IntegerType, StringType, StructType}  
import org.apache.spark.sql.SparkSession  
  
object DataFrameDB\_Insert2\_Array extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 // Senza lo SparkSession non posso creare uno spark DataFrame  
 val *spark* = SparkSession.*builder*()  
 .appName("DataFrameExample")  
 .master("local[\*]")  
 .getOrCreate()  
  
 val *arrayStructureData* = Seq(  
 *Row*("James,,Smith", *List*("Java", "Scala", "C++"), "CA"),  
 *Row*("Michael,Rose", *List*("Spark", "Java", "C++"), "NJ"),  
 *Row*("Robert,,Williams", *List*("CSharp", "VB", "R"), "NV")  
 )  
  
 val *arrayStructureSchema* = new StructType()  
 .add("name", StringType)  
 .add("languageAtSchool", *ArrayType*(StringType))  
 .add("currentState", StringType)  
  
 val *df* = *spark*.createDataFrame(  
 *spark*.sparkContext.parallelize(*arrayStructureData*), *arrayStructureSchema*)  
 import *spark*.implicits.\_  
  
 // flatMap() Usage  
 val *df2* = *df*.flatMap(f => f.getSeq[String](1).map((f.getString(0),\_,f.getString(2))))  
 .toDF("Name", "Language", "State")  
  
 *df2*.show(false)  
}

**DataFrameDB\_withColumn:**

import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.Row  
import org.apache.spark.sql.types.{StringType, StructType}  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.*lit*object DataFrameDB\_withColumn extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
 val *sparkSes* = SparkSession.*builder*().master("local[1]")  
 .appName("SparkExample").getOrCreate()  
  
 val *data* = Seq(  
 *Row*(*Row*("Gianpiero", " ", "Rosa"), "34", "M"),  
 *Row*(*Row*("Maria", "Antonia", "Rossi"), "25", "F"),  
 *Row*(*Row*("Pippo", " ", "Paperino"), "74", "M"))  
  
 val *schema* = new StructType().add("name", new StructType()  
 .add("PrimoNome", StringType)  
 .add("MiddleName", StringType)  
 .add("Surname", StringType))  
 .add("eta", StringType).add("sesso", StringType)  
  
 val *dif* = *sparkSes*.createDataFrame(*sparkSes*.sparkContext.parallelize(*data*), *schema*)  
  
 *dif*.show()  
  
 //aggiunge nuova colonna chiamata  
 val *nuovo* = *dif*.withColumn("country", *lit*("USA"))  
 .withColumn("altra\_colonna", *lit*("alta"))  
  
 *nuovo*.show()  
}

**Esempio ciclo for con list:**

object Esempio\_ciclo\_for\_con\_list extends App  
{  
 val *lista* = *List*(1, 2, 3, 4, 5, 6, 7, 8, 9)  
  
 for (num <- *lista*)  
 {  
 if (num % 2 == 0)  
 {  
 *println*(num)  
 }  
 }  
}

**Esempio ciclo for con seq:**

object Esempio\_ciclo\_for\_con\_seq extends App  
{  
 val *numeri*: Seq[Int] = 1 to 10  
  
 for(num <- *numeri*)  
 {  
 if(num % 2 == 0)  
 {  
 *println*(num)  
 }  
 }  
}

**Esempio DataFrame con file csv:**

import org.apache.spark.sql.SparkSession  
import org.apache.log4j.{Level, Logger}  
  
object EsempioDataFrame extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *sparkSes* = SparkSession.*builder*().master("local[\*]").appName("SparkExample").getOrCreate()  
  
 val *readDF* = *sparkSes*.read.csv("C:\\Users\\utente\\Desktop\\datafile.csv")  
  
 *readDF*.show()  
 *readDF*.printSchema()  
}

**Esempio DataFrame con file csv 2:**

import org.apache.spark.sql.SparkSession  
import org.apache.log4j.{Level, Logger}  
  
object EsempioDataFrame2 extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *spark* = SparkSession.*builder*().master("local[\*]").appName("SparkExample").getOrCreate()  
  
 val *df* = *spark*.read.option("header", true).csv("C:\\Users\\utente\\Desktop\\datafile.csv")  
  
 *df*.show()  
 *df*.printSchema()  
}

**Esempio DataFrame con collegamento al DB:**

import org.apache.spark.sql.SparkSession  
import org.apache.log4j.{Level, Logger}  
//andare su my sql installer poi connectorj upgrade  
//andare su inelj file projectur structure libraries premere +  
//inserire il path copiato di(questopc cerca mysql\_java,cliccajava source e copia path)  
//una volta fatto cio apply e ok  
  
object EsempioDataFrameDB extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *sparkSes* = SparkSession.*builder*().master("local[1]").appName("SparkExample").getOrCreate()  
  
 val *jdbcProva* = *sparkSes*.read.format("jdbc")  
 .option("url", "jdbc:mysql://127.0.0.1:3306/ospedale\_db")  
 .option("dbtable", "visita")  
 .option("driver", "com.mysql.cj.jdbc.Driver")  
 .option("user", "root")  
 .option("password", "root")  
 .load()  
  
 *jdbcProva*.show()  
}

**Esempio DataFrame con il Group By:**

import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.{DataFrame, SparkSession}  
import org.apache.spark.sql.functions.\_  
  
object GrouppBy extends App  
{  
  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
 val *spark* = SparkSession.*builder*()  
 .appName("GroupBy Example")  
 .master("local")  
 .getOrCreate()  
  
 import *spark*.implicits.\_  
  
 val *simpleData* = Seq(  
 ("James", "Sales", "NY", 90000, 34, 10000),  
 ("Michael", "Sales", "NY", 86000, 56, 20000),  
 ("Robert", "Sales", "CA", 81000, 30, 23000),  
 ("Maria", "Finance", "CA", 90000, 24, 23000),  
 ("Raman", "Finance", "CA", 99000, 40, 24000),  
 ("Scott", "Finance", "NY", 83000, 36, 19000),  
 ("Jen", "Finance", "NY", 79000, 53, 15000),  
 ("Jeff", "Marketing", "CA", 80000, 25, 18000),  
 ("Kumar", "Marketing", "NY", 91000, 50, 21000)  
 )  
  
 val *df* = *simpleData*.toDF("employee\_name", "department", "state", "salary", "bonus", "commission")  
 *df*.show()  
  
 val *groupedDF* = *df*.groupBy("department", "state")  
 .agg(  
 *sum*("salary").as("total\_salary"),  
 *avg*("salary").as("average\_salary")  
 )  
 *groupedDF*.show()  
  
 val *minMaxSalaryDF* = *df*.select(*min*("salary").alias("min\_salary"), *max*("salary").alias("max\_salary"))  
 *minMaxSalaryDF*.show()  
 *minMaxSalaryDF*.show()  
}

**Esempio con group by:**

import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object EsempioGroupBy extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *conf* = new SparkConf().setMaster("local[\*]").setAppName("Test Parallelize")  
 val *sc* = new SparkContext(*conf*)  
  
 val *personaRDD* = *sc*.parallelize(*Array*(("Tom", 16), ("Sam", 24), ("Frank", 41), ("Sam", 45), ("Frank", 21), ("Frank", 21)))  
  
 val *groupByRDD* = *personaRDD*.groupBy(x => x.\_1).mapValues(\_.size)  
  
 *groupByRDD*.foreach(*println*)  
}

**Esempio join DataFrame con tabella piena:**

import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.{Row, SparkSession, functions}  
import org.apache.spark.sql.functions.\_  
import org.apache.spark.sql.types.\_  
  
object EsempioJoinDF\_tabellaPiena extends App {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *sparkSes* = SparkSession.*builder*().master("local[1]").appName("SparkExample").getOrCreate()  
 //mi creo prima i due seq senza row perche non li voglio in tabella  
 val *data* = Seq( //  
 ("Foggia","Giampiero", "", "Rosa", "34", "M"),  
 ("Molfetta", "Haria", "Antonia", "Rossi", "25", "F"),  
 ("Bari","Pippo", "", "Paperino", "74", "M")  
 )  
  
 val *emp* = *sparkSes*.createDataFrame(*data*).toDF("luogo\_di\_residenza","nome", "secondo\_nome", "cognome", "età", "sesso")  
 *emp*.show() //qui mi creo la tabella  
  
 val *dataAddr* = Seq(  
 ("Bari", "78188", "via Napoli", "34"),  
 ("Foggia", "75421", "via Palermo", "25"),  
 ("Melfetta", "76123", "via Terlizzi", "74")  
 )  
  
 val *emp2* = *sparkSes*.createDataFrame(*dataAddr*).toDF("città", "cap", "via", "num\_civico")  
 *emp2*.show()  
  
 val *joinDF* = *emp*.join(*emp2*, *emp*("luogo\_di\_residenza") === *emp2*("città"), "inner") //join(unisce con altra tabella)  
 //emp("nome") === emp2("cap") per questo la tabella esce vuota perche il valore di citta non è uguale al nome  
 *joinDF*.show()  
}

**Esempio join DataFrame con tabella vuota:**

import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.SparkSession  
  
object EsempioJoinDF\_tabellaVuota extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 // Senza lo SparkSession non posso creare uno spark DataFrame  
 val *sparkSes* = SparkSession.*builder*()  
 .appName("DataFrameExample")  
 .master("local[1]")  
 .getOrCreate()  
  
 val *data* = Seq(  
 ("Giampiero", "", "Rosa", "34", "M"),  
 ("Maria", "Antonia", "Rossi", "25", "F"),  
 ("Pippo", "", "Paperino", "74", "M"))  
  
 val *emp* = *sparkSes*.createDataFrame(*data*).toDF("nome", "secondo nome", "cognome", "età", "sesso")  
 *emp*.show()  
  
 val *dataAddr* = Seq(  
 ("Bari", "70100", "via Napoli", "34"),  
 ("Foggia", "75421", "via Palermo", "25"),  
 ("Molfetta", "76123", "via Terlizzi", "74"))  
  
 val *emp2* = *sparkSes*.createDataFrame(*dataAddr*).toDF("città", "cap", "via", "num civico")  
 *emp2*.show()  
  
 // flatMap() Usage  
 val *joinDF* = *emp*.join(*emp2*, *emp*("nome") === *emp2*("città"), "inner")  
 *joinDF*.show()  
}

**Esempio Mean (calcolo della media):**

import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object EsempioMean extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
  
 val *conf* = new SparkConf().setMaster("local[\*]").setAppName("test")  
 val *sc* = new SparkContext(*conf*)  
  
 val *personaRDD* = *sc*.parallelize(*Array*(("Tom", 16),("sam", 24),("frank",41),  
 ("sam",45),("frank", 21),("frank", 21)))  
  
 val *meanRDD* = *personaRDD*.map(f => f.\_2).mean()  
 // del secondo elemento mi fai la media  
  
 *println*(*meanRDD*)  
}

**Esempio UDF:**

import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.functions.udf  
import org.apache.spark.sql.{DataFrame, SparkSession}  
  
object EsempioUDF extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *sparkSes* = SparkSession.*builder*()  
 .appName("GroupBy Example")  
 .master("local")  
 .getOrCreate()  
  
 val *data* = Seq(  
 ("10", "furono protagonisti di un'evoluzione incredibile delle strutture sociali"),  
 ("20", "i popoli dell'era classica trovarono il modo di raccontarsi con poemi epici"),  
 ("30", "la complessità dei popoli europei medievali, umana e sociale, trovò espressione in molte nuove opere"),  
 ("40", "queste storie, oggi, ci giungono n forme e con stili a noi poco familiari"),  
 ("50", "i contenuti di alcune sono assolutamente accattivanti"))  
  
 val *emp* = *sparkSes*.createDataFrame(*data*).toDF("segno", "frase")  
 *emp*.show(false)  
  
 // Realizziamo una UDF che appunto faccia la trasformazione  
 val *convertUDF* = *udf* ((strString: String) => {  
 val indicaFrase = strString.split(" ")  
 indicaFrase.map(f => f.capitalize).mkString(" ")  
 })  
  
 // Definisce e registra la UDF  
 *sparkSes*.udf.register("converti", *convertUDF*)  
  
 //Creiamo una vista ed effettuiamo la query con la trasformazione inserita  
 *emp*.createOrReplaceTempView("nuovaFrase")  
 *sparkSes*.sql("select segno, converti(frase) from nuovaFrase").show(false)  
}

**Inversione:**

object Inversione extends App  
{  
 def invertiParole(input: String): String =  
 {  
 val parole = input.split(" ")  
 val paroleInvertite = parole.reverse  
 paroleInvertite.mkString(" ")  
 }  
  
 val *inputString* = "Programmazione in Scala"  
 *println*("Prima: " + *inputString*)  
 val *outputString* = *invertiParole*(*inputString*)  
 *println*("Dopo: " + *outputString*)  
}

**LetturaFile:**

import java.io.{FileOutputStream, PrintWriter}  
import scala.io.Source  
  
object LetturaFile extends App  
{  
 val *nomeFile* = "Esempio.txt"  
 val *variabile\_path* = "C:\\Users\\utente\\Desktop\\Scala\\Esempio.txt"  
 val *variabile\_sorgente* = Source.*fromFile*(*variabile\_path*)  
  
 val *writer* = new PrintWriter(new FileOutputStream("C:\\Users\\utente\\Desktop\\Scala\\Esempio.txt"))  
 for(line <- *variabile\_sorgente*.getLines())  
 {  
 *println*(line)  
 *writer*.write(line.toUpperCase() + "\n")  
 }  
  
 *writer*.close()  
 *variabile\_sorgente*.close()  
}

**LetturaRigaComando:**

import scala.io.StdIn.readLine  
  
object LetturaRigaComando extends App  
{  
 *print*("Inserisci il tuo nome: ")  
 val *firstName* = readLine()  
  
 *print*("Inserisci il tuo cognome: ")  
 val *lastName* = readLine()  
  
 *print*("Inserisci la tua età: ")  
 val *eta*: Int = readLine().toInt  
  
 *println*(s"Your name is **$***firstName* **$***lastName* **$***eta*")  
}

**SovrascritturaFile:**

import java.io.{File, FileWriter}  
  
object SovrascritturaFile extends App  
{  
 val *file* = new File("C:\\Users\\utente\\Desktop\\Ciao\_mondo.txt")  
 val *writer* = new FileWriter(*file*)  
  
 try  
 {  
 *writer*.write("Ciao mondo!!!")  
 *println*("Scrittura completata!")  
 }  
 finally  
 {  
 *writer*.close()  
 }  
}

**Timer:**

object Timer  
{  
 var *i* = 0  
 def oPerSecond(callback: () => Unit){  
 while(*i* < 5)  
 {  
 callback();  
 Thread *sleep* 1000;  
 *i* = *i* + 1  
 }  
 }  
  
 def timeFlies(): Unit = {  
 *println*(s"time flies like an arrow...**$***i*")  
 }  
  
 def main(args: Array[String]): Unit = {  
 *oPerSecond*(*timeFlies*)  
 }  
  
}

**Nome della persona:**

**Person (class):**

class Person(name: String)  
{  
 def nome(): Unit = {  
 *println*("La persona si chiama: " + name)  
 }  
}

**Demo (object):**

object Demo  
{  
 def main(Args: Array[String]): Unit = {  
 val person1 = new Person("Alex");  
 val person2 = new Person("John");  
 person1.nome();  
 }  
}

**AnimaleHabitat:**

**AnimaleCC (class):**

package AnimaleHabitat  
  
case class AnimaleCC(id: Int, classe: String, idAmbiente: Int)

**HabitatCC (class):**

package AnimaleHabitat  
  
case class HabitatCC(id: Int, tipologia: String)

**EsempioJoinCaseClass:**

package AnimaleHabitat  
  
import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object EsempioJoinCaseClass extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *conf* = new SparkConf().setMaster("local[2]").setAppName("Test Parallelize")  
 val *sc* = new SparkContext(*conf*)  
 val *animaleRDD* = *sc*.parallelize(*List*((1, "cane", 1), (2, "gatto", 2), (3, "uccello", 1))).map(x => AnimaleCC(x.\_1, x.\_2, x.\_3)).keyBy(\_.idAmbiente)  
  
 val *ambienteRDD* = *sc*.parallelize(*List*((1, "foresta"), (2, "casa"))).map(x => HabitatCC(x.\_1, x.\_2)).keyBy(\_.id)  
  
 val *joinAniAmbiRDD* = *animaleRDD*.join(*ambienteRDD*).map(r => (r.\_2.\_1.classe, r.\_2.\_2.tipologia))  
 //(1,(AnimaleCC(1,cane,1),HabitatCC(1,foresta))) senza il map mi da tutto questo oggetto con due elementi, l'intero e la lista  
 //quindi(r.\_2.\_1.classe) dell oggetto mi prendo la lista .\_2 poi della lista (AnimaleCC(1,cane,1),HabitatCC(1,foresta)  
 //mi prendo il primo .\_1(AnimaleCC(1,cane,1)) e quindi poi di quest altra lista mi prendo la classe .classe  
 // cioe il secondo elemnto di(1,cane,1) cioe cane  
  
 *joinAniAmbiRDD*.foreach(*println*)  
}

**EsempioAzioneTake:**

package AnimaleHabitat  
  
import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object EsempioAzioneTake extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *conf* = new SparkConf().setMaster("local[2]").setAppName("Test Parallelize")  
 val *sc* = new SparkContext(*conf*)  
 val *animaleRDD* = *sc*.parallelize(*List*((1, "cane", 1), (2, "gatto", 2), (3, "uccello", 1))).map(x => AnimaleCC(x.\_1, x.\_2, x.\_3)).keyBy(\_.idAmbiente)  
  
 val *ambienteRDD* = *sc*.parallelize(*List*((1, "foresta"), (2, "casa"))).map(x => HabitatCC(x.\_1, x.\_2)).keyBy(\_.id)  
  
 val *joinAniAmbi* = *animaleRDD*.join(*ambienteRDD*).map(r => (r.\_2.\_1.classe, r.\_2.\_2.tipologia))  
  
 // joinAniAmbiRDD.foreach(println)  
 val *animaleTake* = *animaleRDD*.take(num = 2)  
 *println*(*animaleTake*.mkString)  
}

**EsempioAzioneFirst:**

package AnimaleHabitat  
  
import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object EsempioAzioneFirst extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *conf* = new SparkConf().setMaster("local[2]").setAppName("Test Parallelize")  
 val *sc* = new SparkContext(*conf*)  
 val *animaleRDD* = *sc*.parallelize(*List*((1, "cane", 1), (2, "gatto", 2), (3, "uccello", 1))).map(x => AnimaleCC(x.\_1, x.\_2, x.\_3)).keyBy(\_.idAmbiente)  
  
 val *ambienteRDD* = *sc*.parallelize(*List*((1, "foresta"), (2, "casa"))).map(x => HabitatCC(x.\_1, x.\_2)).keyBy(\_.id)  
  
 val *joinAniAmbiRRD* = *animaleRDD*.join(*ambienteRDD*).map(r => (r.\_2.\_1.classe, r.\_2.\_2.tipologia))  
  
 val *animaleFirst* = *animaleRDD*.first()  
 *println*(*animaleFirst*)  
}

**Ereditarietà:**

**Person:**

package Ereditarietà  
  
class Person(Name: String, PhoneNumber: String, EmailAddress: String)  
{  
 def showInfo(): Unit = {  
 *println*("\nNome: " + s"**$**Name" + "\n Numero di telefono: " + s"**$**PhoneNumber" + "\nEmail: " + s"**$**EmailAddress")  
 }  
}

**Professor:**

package Ereditarietà  
  
class Professor(Name: String, PhoneNumber: String, EmailAddress: String, Salary: Double) extends Person(Name, PhoneNumber, EmailAddress)  
{  
  
 override def showInfo(): Unit = {  
 *println*("Nome professore: " + s"**$**Name" + "\nNumero di telefono professore: " + s"**$**PhoneNumber" + "\nIndirizzo email professore: " + s"**$**EmailAddress")  
 }  
  
 def printSalary(): Unit = {  
 *println*(s"Salario **$**Salary")  
 }  
}

**Student:**

package Ereditarietà  
  
class Student(Name: String, PhoneNumber: String, EmailAddress: String, StudentNumber: String, AverageMark: String) extends Person(Name, PhoneNumber, EmailAddress)  
{  
 override def showInfo(): Unit = {  
 *println*("Nome studente: " + s"**$**Name" + "\nNumero di telefono studente: " + s"**$**PhoneNumber" + "\nIndirizzo email studente: " + s"**$**EmailAddress" + "\nVoto medio: " + s"**$**AverageMark")  
 }  
  
 def setAverageMark(newAM: Double): Unit = {  
 var AverageMark = newAM  
 }  
  
  
}

**Main:**

package Ereditarietà  
  
object Main  
{  
 def main(Args: Array[String]): Unit = {  
 val studente = new Student("Giuseppe", "3827621328", "gfavuzzi@studenti.apuliadigitalmaker.it", "58828", "8.2")  
 studente.showInfo()  
 studente.setAverageMark(8.4)  
  
 *println*(" ")  
  
 val professor = new Professor("Francesco", "2718363729", "fceci@professori.apuliadigitalmaker.it", 2500.5)  
 professor.showInfo()  
 professor.printSalary()  
 }  
}

**Persona:**

**Person:**

package Persona  
  
class Person(firstName: String, lastName: String, age: Int, interests: String, gender: String)  
{  
 def nome(): Unit = {  
 *println*("Ciao! Sono" + "\nNome: " + s"**$**firstName" + "\nCognome: " + s"**$**lastName" + "\nEtà: " + s"**$**age" + "\nInteressi: " + s"**$**interests" + "\nSesso:" + s"**$**gender")  
 }  
}

**Main:**

package Persona  
  
object Main  
{  
 def main(Args: Array[String]): Unit = {  
 val persona = new Person("Giacomo", "de Gennaro", 25, "giocare a calcio", "maschio");  
 persona.nome();  
 }  
}

**SparkTest:**

import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object sparkTest extends App {  
  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *conf* = new SparkConf().setMaster("local[1]").setAppName("test")  
 val *sc* = new SparkContext(*conf*)  
 val *data* = *Array*(1, 2, 3, 4, 5)  
 val *rdd* = *sc*.parallelize(*data*)  
 *rdd*.foreach(*println*)  
}

**EsempioJoin:**

package TestJoin  
  
import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object EsempioJoin extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *conf* = new SparkConf().setMaster("local[\*]").setAppName("Test Parallelize")  
 val *sc* = new SparkContext(*conf*)  
 val *animaleRDD* = *sc*.parallelize(*List*((1, "cane", 1), (2, "gatto", 2), (3, "uccello", 1))).keyBy(\_.\_3)  
 // con KeyBy 3 indico il valore dei terzi elementi della liste, in questo caso 1, 2 e 1  
  
 val *ambienteRDD* = *sc*.parallelize(*List*((1, "foresta"), (2, "casa"))).keyBy(\_.\_1)  
 // con KeyBy 1 indico il valore dei primi elementi della liste, in questo caso 1 e 2  
  
 val *joinAniAmbiRDD* = *animaleRDD*.join(*ambienteRDD*)  
  
 *joinAniAmbiRDD*.foreach(*println*)  
}

**TestMap:**

**EsempioFlatMap:**

package TestMap  
  
import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object EsempioFlatMap extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *conf* = new SparkConf().setMaster("local[\*]").setAppName("Test Parallelize")  
 val *sc* = new SparkContext(*conf*)  
 val *sequenza* = Seq("ITS Project", "Developer project", "Cloud project")  
  
 val *operazioneRDD* = *sc*.parallelize(*sequenza*)  
  
 *operazioneRDD*.foreach(*println*)  
  
 val *operazioneRDD2* = *operazioneRDD*.flatMap(f => f.split(" "))  
 *operazioneRDD2*.foreach(*println*)  
}

**EsempioMap:**

package TestMap  
  
import org.apache.spark.{SparkConf, SparkContext}  
import org.apache.log4j.{Level, Logger}  
  
object EsempioMap extends App  
{  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val *conf* = new SparkConf().setMaster("local[\*]").setAppName("Test Parallelize")  
 val *sc* = new SparkContext(*conf*)  
 val *sequenza* = Seq("ITS Project", "Developer project", "Cloud project")  
  
 val *operazioneRDD* = *sc*.parallelize(*sequenza*)  
  
 val *operazioneRDD2* = *operazioneRDD*.map(f => (f, 1))  
 *operazioneRDD2*.foreach(*println*)  
}

**Lezione 6:**

**La normalizzazione dei dati è una tecnica consolidata per la progettazione di una base di dati.**

**Prevede di evitare la ripetizione dei dati su più tabelle.**

**Per rendere più semplici le operazioni di scrittura: inserire, modificare o cancellare dati.**

**Per contro, un database relazionale in cui i dati sono stati normalizzati tende a disperdere il contenuto informativo su più tabelle.**

**I vantaggi dei database non relazioni aka NoSql (Not Only Sql):**

* **Elevata velocità computazionale;**
* **Supporto per la scalabilità orizzontale;**
* **Un elevato livello di disponibilità del servizio;**
* **Schemaless;**
* **Grossi volumi di dati;**
* **Ciao DBAs;**
* **Compatibili con database relazionali.**

**Il JSON (Java-Script-Object-Notation) è un formato adatto all’interscambio di dati client/server.**

**Un Documento è un insieme di coppie chiave-valore.**

**I documenti hanno uno schema dinamico, cioè che i documenti nella stessa collection non devono avere lo stesso numero di field e i documenti possono contenere diversi tipi di dati.**

**Comandi & Esercizi:**

**Avvio un container tramite un docker-composer:**

**Mongodb = nome container del mongodb;**

**Mongosh = il comando per lanciare mongoshell;**

**Docker exec = eseguo un comando mongo shell all’interno del container mongodb.**

**![Immagine che contiene testo, schermata

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHV0ZW50ZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzIyAACSkgACAAAAAzIyAADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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FFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBpXOm28Om29wl9EXkViVw/zYOML8n8zTP7Kl8jf5sPm+V53kZO/ZjOemOnOM5xTDeQyabHbTwOzw7vKkSQKBnnkEHPPoRVqTXZJbFYXe8R1iEX7q6KxkAYGUwe3Xnmub96tu/kcn75Ky11fbbp/W5Vl08wWsc01xCjSJ5iQkOWZckA8Lt7etTXOm28Om29wl9EXkViVw/wA2DjC/J/M0R6okOmvaxxzt5ibSss4aME9WCbRg+hzx71CbyGTTY7aeB2eHd5UiSBQM88gg559CKf7xvXv5bD/etq/fy2ENiXsRc2ziZVH75AMNEc9SO6n1/PHepVv7e0dmLe1TyAwImdT80uexPZfb889qlax5teY3hza8xrWelJ5cjXckW/7I8yQZbePlyrcDHvgn8KW60hSkTWskKu1qsxgLku/ybmI4wO5wSOnApo1iIK7tZlrmS2+ztJ5vy427QQuODgDv27ZpG1aLakkds63K24txI0uVA27Sdu3rjPfvXNatzX/y/q34nJavzX/yt/w34mXWvdaQpSJrWSFXa1WYwFyXf5NzEcYHc4JHTgVn+bB9g8r7P/pHmbvP3n7uMbdvTrzmrratFtSSO2dblbcW4kaXKgbdpO3b1xnv3rWfO2nH+v6+82qe0bTgu/b+rfiRf2TL5f8ArofP8rzfs2Tv24znpj7vOM5xR/ZMvl/66Hz/ACvN+zZO/bjOemPu84znFSf2tHnz/sx+2+T5Pm+b8v3du7bjrt464zzij+1o8+f9mP23yfJ83zfl+7t3bcddvHXGecVN63b8v6t+JF6/b8t/8vxHXWlgW8VwhSCH7OjM8hOHkIztHXJ/Qd8VWl08wWsc01xCjSJ5iQkOWZckA8Lt7etWJNYFxaJa3Nv5kMcKog34KMP4lOOM9x3pseqJDpr2scc7eYm0rLOGjBPVgm0YPoc8e9Efapa9/LYI+3SV+/lsZta1npSeXI13JFv+yPMkGW3j5cq3Ax74J/CqHmwfYPK+z/6R5m7z95+7jG3b0685q8NYiCu7WZa5ktvs7Seb8uNu0ELjg4A79u2aqpztWivy/r9S6vtGrRX5f1b8Rg0WYwxv59uHlhM0cW47mUAk9sDoepGccUz+yZfL/wBdD5/leb9myd+3Gc9Mfd5xnOKhu7r7UIBs2+TCIuuc4zz+tWv7Wjz5/wBmP23yfJ83zfl+7t3bcddvHXGecUn7VL+v6t+JL9sl/wAN/Vu/UQ6NKIVb7RbmRofPWAMS7Jt3emM4zwTng1EbeODSVnlUtLcsRFzgIqkZb3yePwPtV271C3hELW8Ze5NkkRl80FUym1vlAznBI6/hVR5UudHiQuqy2jEBScb0Y549wc8eh9jSjKo0nLa/9foKMqjSctr/AOf4Xt/ww0W8c+ktPEpWW2YCXnIdWPDexB4/Ee9UqvJIlto8iB1aW7YAqp+4inPPuTjj0HuKo1rC+vr/AF+JvTvr6/1+NwooorQ0CiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKANy70Ozt9Bs75NVtzLMshMZWX5ypGFX93wecHJAz0OKSPwxcyWsEv2uzWS4ga4ggMjeZIqgk8AYH3T1IB7Zqv/aVtLokVjd2sryW5kME0U4QDdg4ZSp3YI7Edah1C/wDt0dmvl+X9lthBndndhmOfb73T2rijGvtfq9XbbW36Gt4Xv5f5f8EmGhXJuEh3xbnszeA5ONgQvjp1wP8A69PXw9cNaiT7Rbi4Nv8AaVtCzea0WM7vu7fugtjdnHarUXiO3SCNn05nu1smsvO+0YTaVZQwTb97BHUkcHgE5DpPFk82lR2skupRyR24gH2fUDHCwAwC0e054wDgjOO1Q5Yu6tH8v6t+I4qn1f8AWn/BOdooor0DEKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooA0rnTbeHTbe4S+iLyKxK4f5sHGF+T+Zpn9lS+Rv82HzfK87yMnfsxnPTHTnGc4phvIZNNjtp4HZ4d3lSJIFAzzyCDnn0Iq1JrsktisLveI6xCL91dFYyAMDKYPbrzzXN+9W3fyOT98lZa6vtt0/rcqy6eYLWOaa4hRpE8xISHLMuSAeF29vWprnTbeHTbe4S+iLyKxK4f5sHGF+T+Zoj1RIdNe1jjnbzE2lZZw0YJ6sE2jB9Dnj3qE3kMmmx208Ds8O7ypEkCgZ55BBzz6EU/wB43r38th/vW1fv5bCGxL2IubZxMqj98gGGiOepHdT6/njvUq39vaOzFvap5AYETOp+aXPYnsvt+ee1StY82vMbw5teYuS6eYLWOaa4hRpE8xISHLMuSAeF29vWrd3pC+VHJbSQq32RJmhLEu3ygs3QgfQkewqKPVEh017WOOdvMTaVlnDRgnqwTaMH0OePek/tX99v8n/l0+zY3f7G3d0/HFY/vW7nP++bv69hv9ky+X/rofP8rzfs2Tv24znpj7vOM5xSf2VcfbPs42nIz5gzs+5v649Kl/taPPn/AGY/bfJ8nzfN+X7u3dtx128dcZ5xUv8Ab2IPL+zD/j38rO/+PZs39P7vGP1pXrdvy/q34i5sR2/Lf/L8THq29gYrVJp7iGNpE3pCdxdl7HgEDPuRVSr097BdW8Ynt3+0RxCJZElAUgdCVKnJxx1Fby5rqx0T5rqwv9ky+X/rofP8rzfs2Tv24znpj7vOM5xSvHC+grOsCJMs4jLqzZYbSeQSR+QFP/taPPn/AGY/bfJ8nzfN+X7u3dtx128dcZ5xUf221/sk2Ytpt5cSeZ54xuxjps6e2fxrH947XXX/AIf5fiY/vXa66rt8+u34ivHC+grOsCJMs4jLqzZYbSeQSR+QFJ/ZUvkb/Nh83yvO8jJ37MZz0x05xnOKPttr/ZJsxbTby4k8zzxjdjHTZ09s/jU8muyS2Kwu94jrEIv3V0VjIAwMpg9uvPNH71fCuov3y+Fdf6+RUewMVqk09xDG0ib0hO4uy9jwCBn3Iqe5023h023uEvoi8isSuH+bBxhfk/majnvYLq3jE9u/2iOIRLIkoCkDoSpU5OOOoppvIZNNjtp4HZ4d3lSJIFAzzyCDnn0Iqv3js/PyK/euzd99dtv6+Y97aJdCWdRE8jT7TIrtuUbfulSAPfIJo/smXy/9dD5/leb9myd+3Gc9Mfd5xnOKPttr/ZJsxbTby4k8zzxjdjHTZ09s/jUn9rR58/7Mftvk+T5vm/L93bu2467eOuM84qf3q2XXy/q34i/eq9l1fb5fL8RraNKsG/7RblzAJxCGYsUxnPTA+hPaopdPMFrHNNcQo0ieYkJDlmXJAPC7e3rUv9q/vt/k/wDLp9mxu/2Nu7p+OKWPVEh017WOOdvMTaVlnDRgnqwTaMH0OePen+90/wCAH77S/wChm0UUV0HUFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAaVzptvDptvcJfRF5FYlcP82DjC/J/M0z+ypfI3+bD5vled5GTv2YznpjpzjOcUw3kMmm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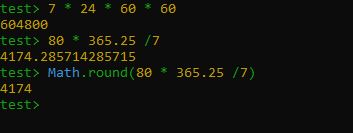
**Creazione di un dispositivo inserendolo in una collection:**

**![Immagine che contiene testo, schermata

Descrizione generata automaticamente](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4RDgRXhpZgAATU0AKgAAAAgABAE7AAIAAAAHAAAISodpAAQAAAABAAAIUpydAAEAAAAOAAAQyuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAHV0ZW50ZQAAAAWQAwACAAAAFAAAEKCQBAACAAAAFAAAELSSkQACAAAAAzM4AACSkgACAAAAAzM4AADqHAAHAAAIDAAACJQAAAAAHOoAAAAIAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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**Esercizio 1:**

**![Immagine che contiene testo, schermata, Carattere

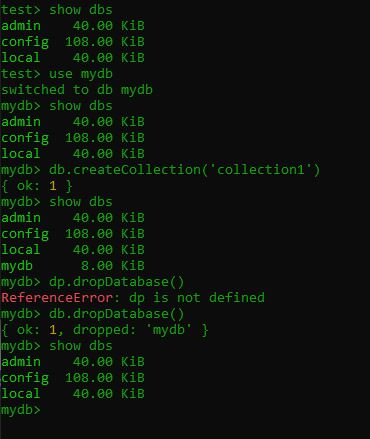
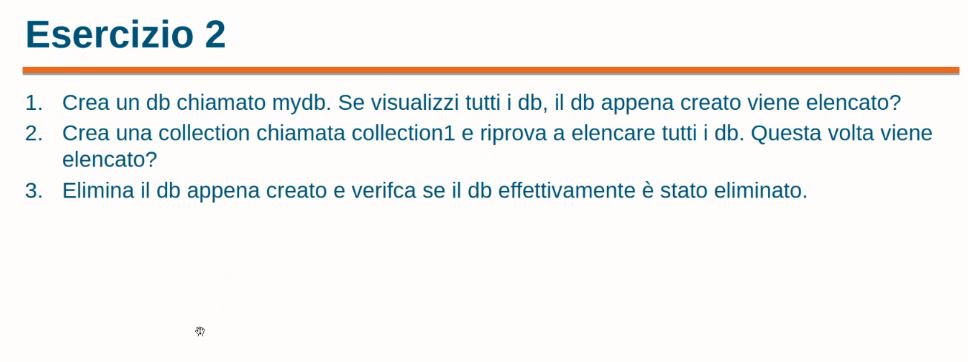
Descrizione generata 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gAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiimu6xruc4FADqKh+1Rf7f/AH7b/Cj7VF/t/wDftv8ACgCaio0njkbapOfQqR/OpKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAqvcc3EQ/wBlj/L/ABqxVef/AI+I/wDcb+a0AeUw+KfFl5HJLaTSyxx8uY7VGC/+O13fhzXF1bQre4lbdOF2zYGPmHBP49fxrzTTNZsrezhh1C3eX7PI7oihSsm4AEMD0PHUZ4NRaTrN3azSx2s0lusjl1EQXZGfVgVPyDv9K+nx+ETpScYKPL2W6/rU8XDV2ppOTdz2XzBIqMvaRR+o/wAavVkafn7DHulMx8xMyED5uRzxxWvXzJ7SCiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAVXuPlmjY8DBXPucf4VYpCAwwwBB7GgDnT4P0Akk6ZDz6Ej+tYdj4A+weJrvUYrhTbMf9Gt9xxGCBuzxzznHt+ndfZoP+eMf/fAo+zQf88Y/wDvgV0/Wq3K48zs/My9jTvflRQtbf7NDHBhQd6lVToAMf4VqUxIo4/9Wir/ALoxT65jUKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooqC9vILCzlurqQRxRLuZj2obUVdjSbdkTk4GTWTpPibS9buprfTpzJJCMtlSMjpkeopNDvrvV4P7QnQW9rL/qIcfMV7Mx9/QVLpvh/TNIuJp9OtVhkm++QT+Q9B9Kx56k3GUPh6/wDAN+WnBSjUvzdLbX63NKiiitznCiiikAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAZ3iC/k0rw3qV/CAZLW1kmQHoSqkj+VeQeDvE7674ffUPEnxEm029aVwLZZIU2qOnBXNeyatYLqujXmnyMUS6geFmHUBgRn9a818L+CPGPhHSm020j8PX0AlZ0luUffz9BXRTcVF33OSspuatsaXwt1nWPFPg6/Gr3szstxJDb3wUI7JjhhxjIrjNR+IXjPwHrV54d1uaDUZplH2G9l2pt3HCu2B065B7j0r2CxXWIfDeLiCxXVArbY4Cywbsnb2zjGM/jXEp8IbfWdJv5fF9z9s13UH8xr2MnFvjO1UB/hA6jvVQnDmbktCJ06nJFQep2vhiwvtP8P28erak+p3jLvluGxgkjouP4R2rzLwLeeIPGXiTxJb3fifUbWHT7kpCsAToXcY5U9Aortfh/4f8AEPhfTZNJ1u/tr+yh4tJU3CRV/usD29OeK82+HMfie18ZeLotAhsBIt2ROt/vBHzvjG38f0pxStO1gm3eF0zp/A/iHW4/itrfhXVNUk1K0tYTJDLOihwQU7gDs36VDoWra/448eeIbB9dudLstKk8uGKzjQFvmIySwP8Ad/Wtbwb4F1fTfHWqeKvEV1avdX0ZRYbQNtXJXJyf90CtLwt4Hbwz4w17VUu1mt9VZZFjK4aNskkHsRzwaJSgm2t7IIwqNJO9rv7uhr6Rod1piXAuddv9QMy7VNzs/d9eV2qPXvXn+m6prmmfHKHw3Prl3f6f9mMhW4CZJKE9gO9es1x1x4Hkf4q2vi+G7UItuYZrdl5ztIBU/j0rKEld83Y2qwdo8vRm9qmlyXa+bYXc1ndKMo6NlSfRl6EfrXEeKb7UdTuNF0HUEWGeeQNcrGchvn2g/TAJr0msHVfDX27xLp2swyhJLU4kRhw689PcZrzMVQlOPudbX9L6nsYLEQpzvU6J29baGlf6e11pLWVpdzWBKhUmt8bkAI6ZBHbFed/C3XdYv/FnifTdW1Oe/h0+byoTNjIAdhngDnivUK43wv4Ffw54r8Q6kLpZbbV38xEwQ8ZJJYH8+DXpQcVBxZ5FRSdSMl8zA1jxVolzr14tr411qMxvteCwtvNjiI4wCIz6etN+EXi7VNd1zX9O1HUJdQtrN1NtNPGEk2lmHIwOwHFO8MeB/F/gX+0LXw/PpF3ZXE/mo14HEg4xzt9sVofDzwPrHhrxJrmr61NaO2qEOEtixCnczHqOnNbtwUGl8jniqrnFtW7/ANXPQqKKK4zvCiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKYBRRRSAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKACiiigAooooAKKKKNACiiigAooooAKKKKegBRRRS0AKKKKACiiigAooopgYGv69Np9xb21kImkMkbXDSHiOJnC8D1JPH0J7VvjmqGoaJp2p831nDK2VO9oxu+U5Az1xmrwGBxxTbVlYiKlzO+wtFFFSWFFFFABRRRQAGiijvQIKKKTvTGB7VElrbxXEk8cEaTSgCSRVAZ8dMnvUtFAhaTvQKWkMKKKKACij0oP9KAE/wAaX1pKD3oAU9DRSHpS0AFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFAH/9k=)**

**1.1 -> 7\*24\*60\*60**

**1.2 -> 80\*365.25/7**

**1.3 -> Math.round(80\*365.25/7)**

**Esercizio 2:**

****

**2.1**

**db**

**show dbs**

**"NO"**

**2.2**

**db.createCollection('collection1')**

**show dbs**

**"SI"**

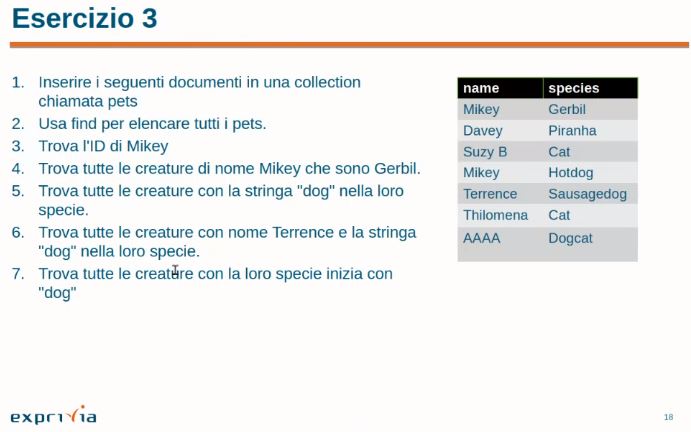
**2.3**

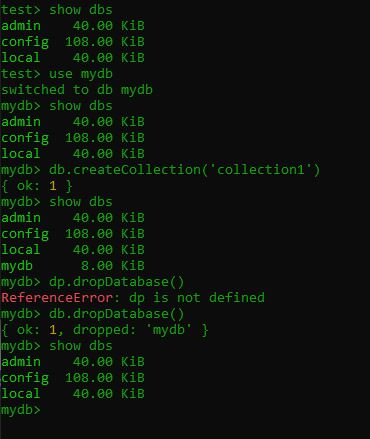
**db.dropDatabase()**

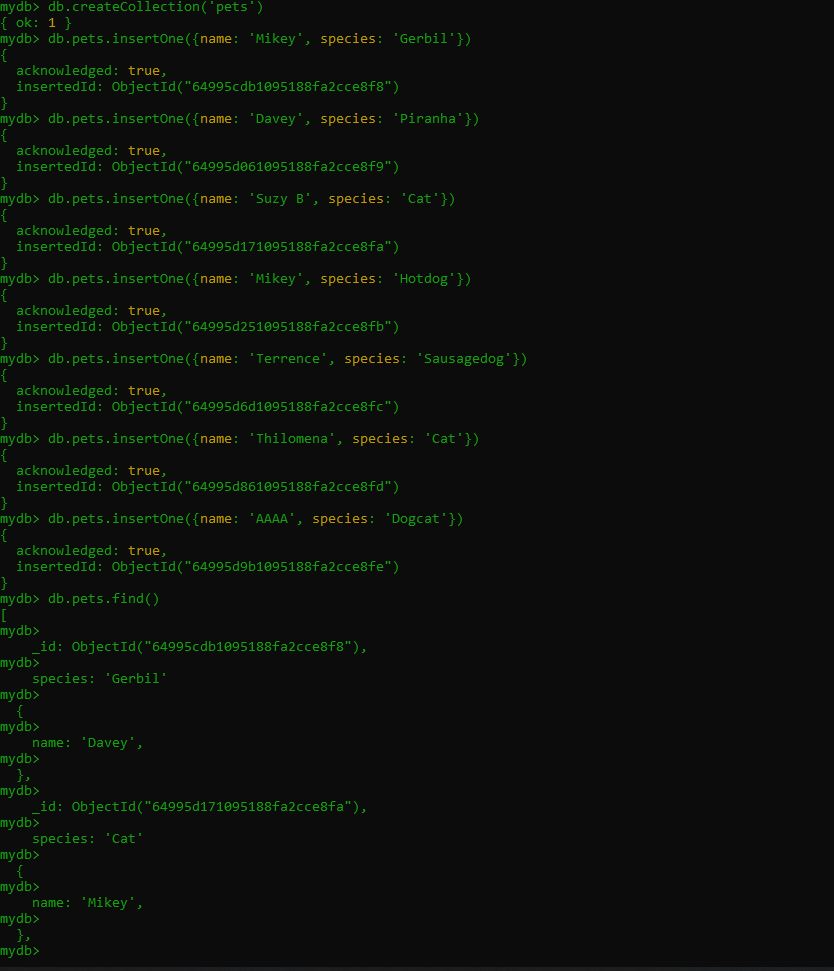
**show dbs**

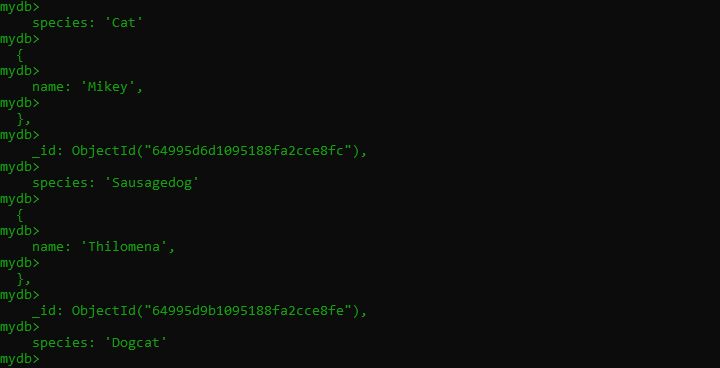
**"SI"**

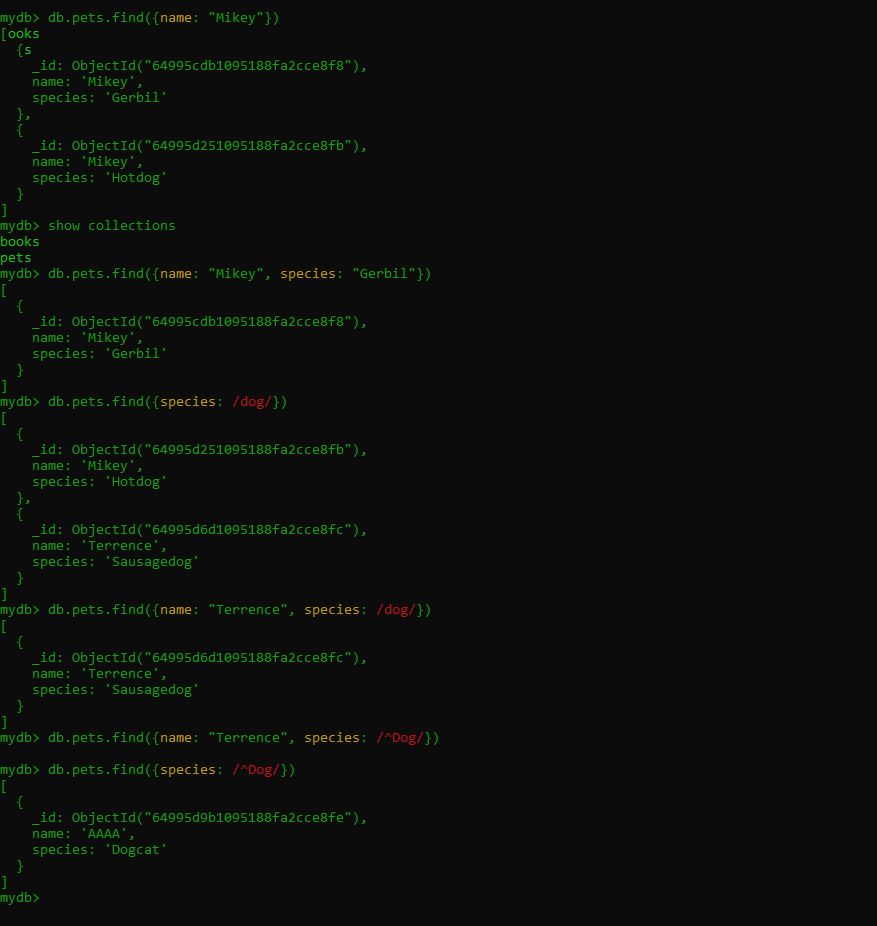
**Esercizio 3:**

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**3.1**

**db.pets.insertOne({name: "Mikey", species: "Gerbil"})**

**db.pets.insertOne({name: "Davey", species: "Piranha"})**

**db.pets.insertOne({name: "Suzy B", species: "Cat"})**

**db.pets.insertOne({name: "Mikey", species: "Hotdog"})**

**db.pets.insertOne({name: "Terrence", species: "Sausagedog"})**

**db.pets.insertOne({name: "Philomena", species: "Cat"})**

**3.2**

**db.pets.find()**

**3.3**

**db.pets.find({name:"Mikey"})**

**3.4**

**db.pets.find({name:"Mikey", species: "Gerbil"})**

**3.5**

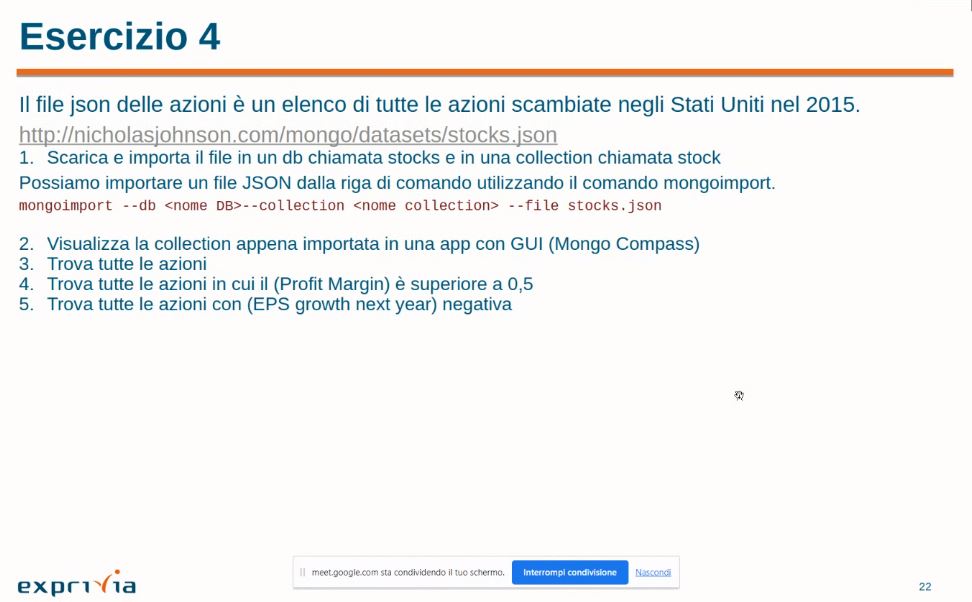
**db.pets.find({species: /dog/})**

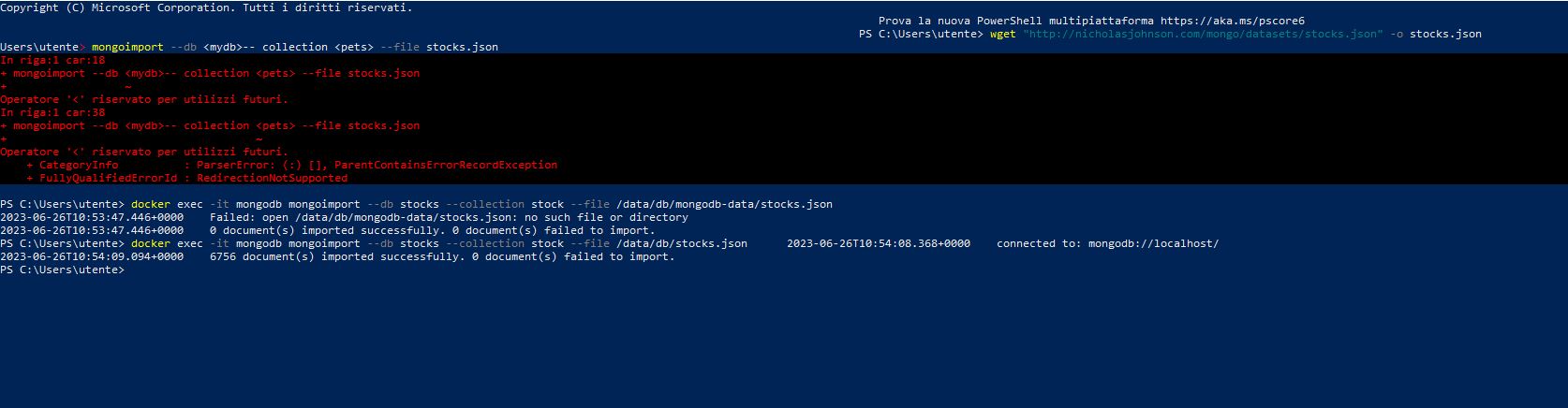
**3.6**

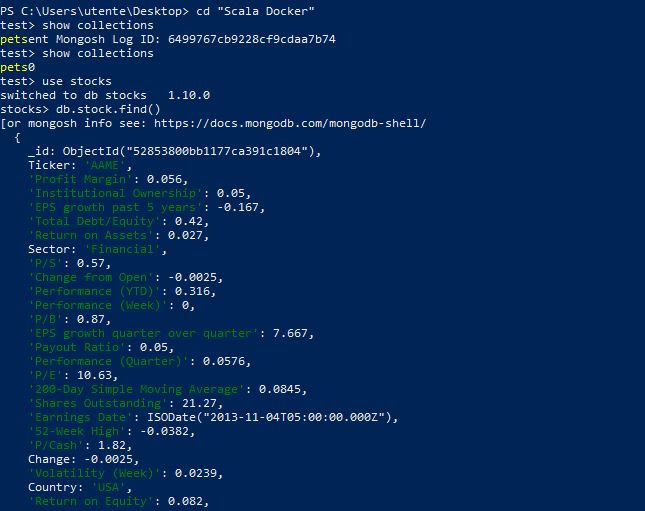
**db.pets.find({name: "Terrence", species: /dog/})**

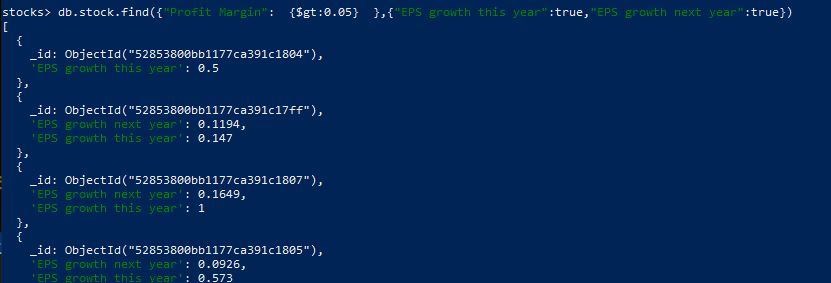
**Esercizio 4:**

**wget "http://nicholasjohnson.com/mongo/datasets/stocks.json" -o stocks.json**

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**4.1**

**step1. wget http://nicholasjohnson.com/mongo/datasets/stocks.json -O stocks.json**

**step2. copiare il file nella cartella ./mongodb-data/json**

**step3. docker exec -it mongodb mongoimport --db stocks --collection stock --type json --file /data/db/json/stocks.json**

**4.2**

**db.stock.find()**

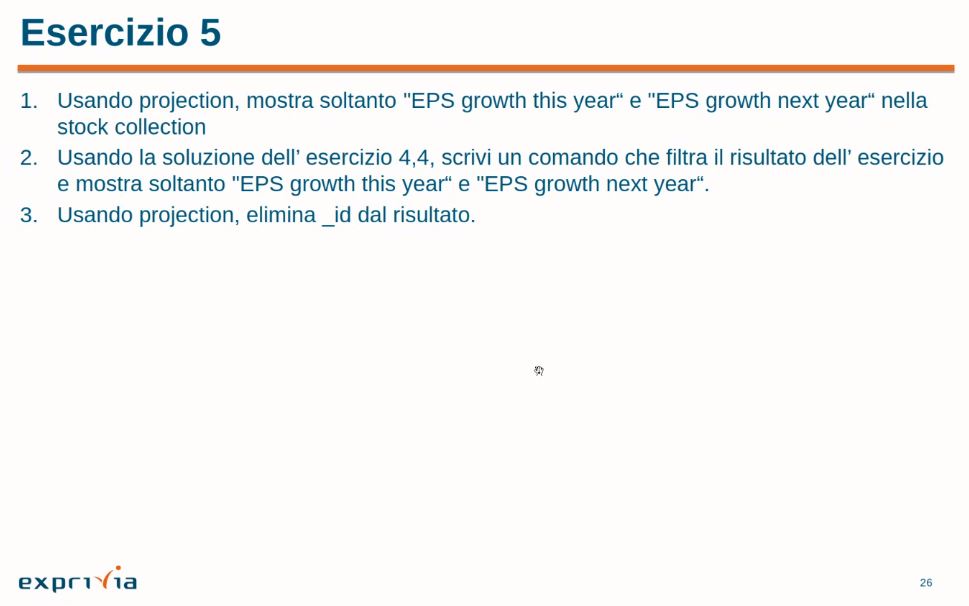
**4.3**

**db.stock.find({"Profit Margin" :{ $gt: 0.5}})**

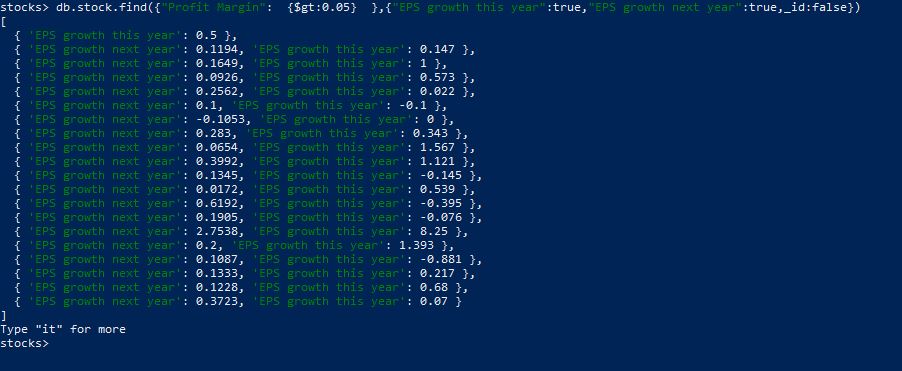
**4.4**

**db.stock.find({"EPS growth next year" :{ $lt: 0}})**

**Esercizio 5:**

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**5.1**

**db.stock.find({},**

**{"EPS growth this year":true,**

**"EPS growth next year":true})**

**.pretty()**

**5.2**

**db.stock.find({"EPS growth next year" :{ $lt: 0}},{"EPS growth this year":true,"EPS growth next year":true})**

**5.3**

**db.stock.find({"EPS growth next year" :{ $lt: 0}},{"EPS growth this year":true,"EPS growth next year":true, \_id:false})**

**Altri comandi:**

**docker exec -it mongodb mongoimport --db <stocks>--collection <stocks> --file stocks.json**

**db.stock.find({"EPS growth this year": {$gt: 0.5}, "EPS growth next year": {$gt: 0.5} } , {"EPS growth this year":true, "EPS growth next year": true, \_id:false})**

**stocks> db.stock.find({},{"EPS growth this year": false, "EPS growth this year": false})**

**db.stock.find({},{"EPS growth this year":true,"EPS growth next year":true})**

**db.stock.find({"Profit Margin": {$gt:0.05} },{"EPS growth this year":true,"EPS growth next year":true})**

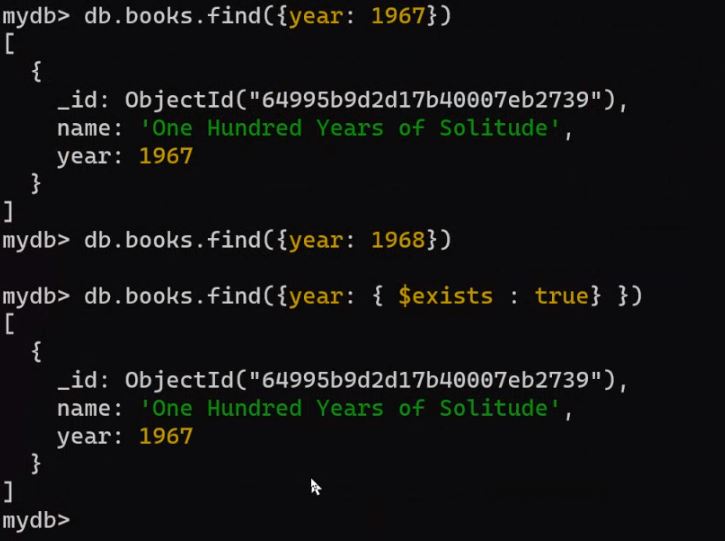
**db.stock.find({"Profit Margin": {$gt:0.05} },{"EPS growth this year":true,"EPS growth next year":true,\_id:false})**

**stocks> db.stock.find({"Profit Margin": {$gt:0.05} },{"EPS growth this year":true , "EPS growth next year":true,\_id:false})**

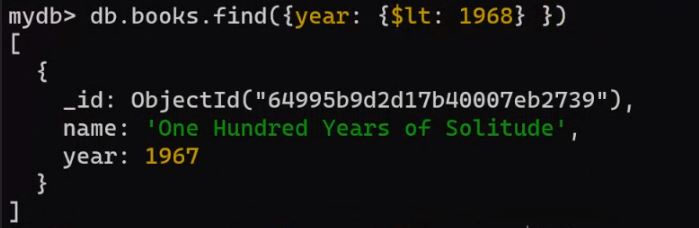
**Lezione 7:**

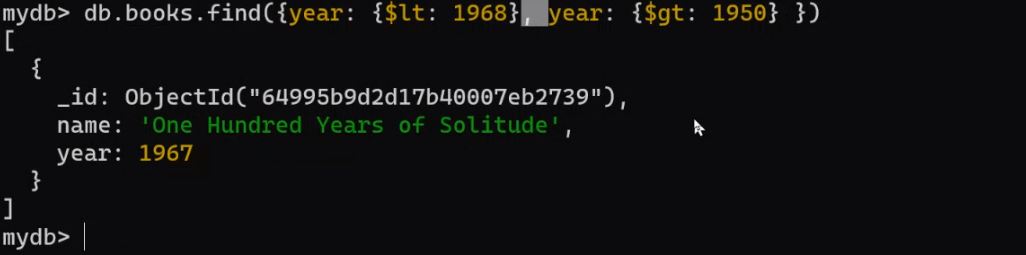
**Comandi & Esercizi:**

**Trovo il libro nella collection dell’anno 1967, dimostrando che esiste:**

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**$lt equivale al minore e $gt equivale al maggiore:**

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****

**Altri comandi:**

**db.stock.find({ "Profit Margin": { $gt: 0.5 } }, { "Profit Margin": true, \_id: false })**

**db.stock.find({ "Profit Margin": { $gt: 0.5 } }, { "Profit Margin": true, \_id: false }).sort({"Profit Margin":-1})**

**db.stock.find({ "Profit Margin": { $gt: 0.5 } }, { "Profit Margin": true, \_id: false }).sort({"Profit Margin":-1}).limit(3)**

**-> Mostra solo i primi 3 numeri**

**db.stock.find({ "Profit Margin": { $gt: 0.5 } }, { "Profit Margin": true, \_id: false }).sort({"Profit Margin":-1}).skip(2).limit(1)**

**-> Salto i primi 2 e ne mostro uno**

**db.stock.remove({Country: "France"})**

**-> Tutti gli stock che hanno France vengono eliminati**

**db.stock.updateMany(**

**{Country: "USA"},**

**{$set:{Country:"United States of America"}}**

**)**

**-> Rinominare tutti i campi con il nome "USA" a "united States of America"**

**db.stock.updateMany(**

**{Country: "USA"}**

**{$set:{new\_field:1}}**

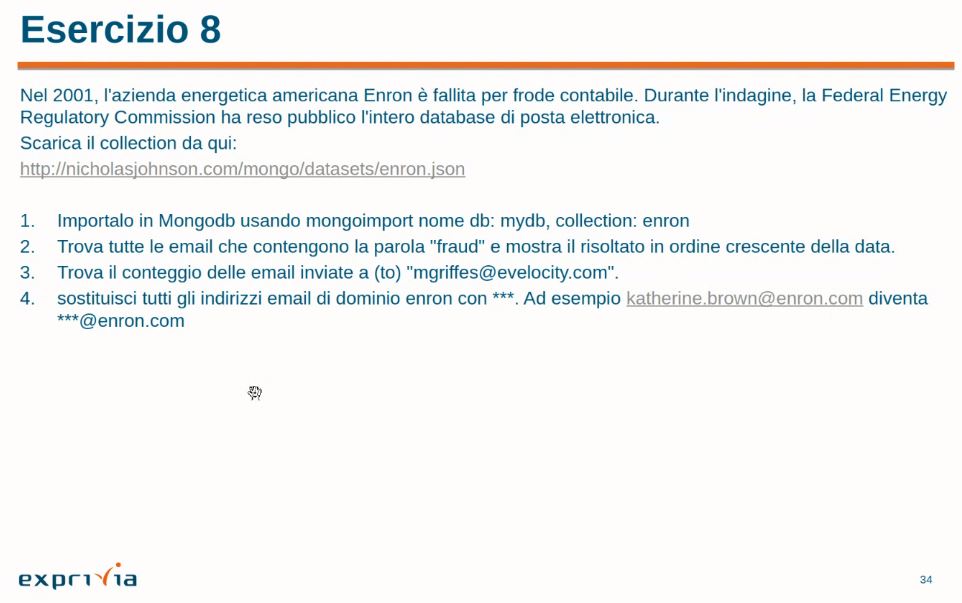
**)**

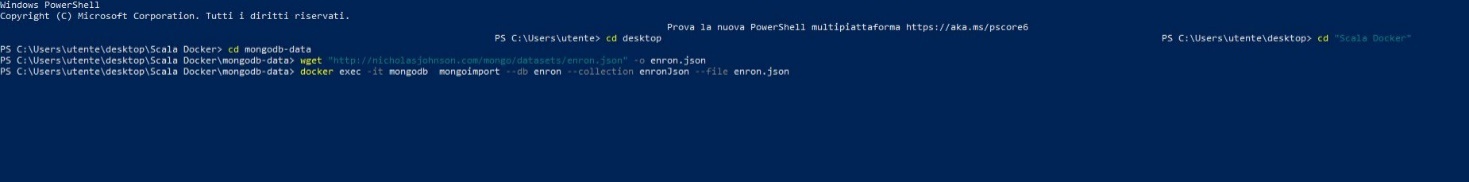
**-> Creo un nuovo campo**

**wget "http://nicholasjohnson.com/mongo/datasets/enron.json" -o stocks.json**

**-> Per accedere al JSON sulla powershell**

**Esercizio 8:**

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**8.1**

**wget http://nicholasjohnson.com/mongo/datasets/enron.json -O enron.json**

**mongoimport --db mydb --collection enron --file enron.json**

**8.2**

**db.enron.find({text:/fraud/},{text:1,date:1, \_id:false}).sort({"date":1}).pretty()**

**8.3**

**db.enron.find({recipients:"mgriffes@evelocity.com"}).count()**

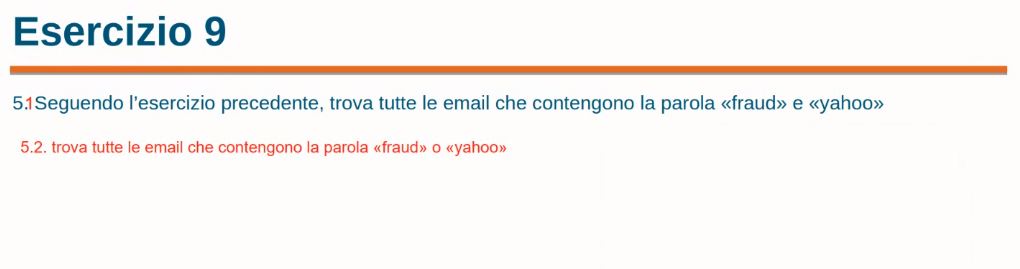
**8.4**

**prima bisogna fare una verifica iniziale usando find e poi sostituire find con updateMany e la regola per fare update:**

**db.enron.find({recipients:/@enron.com/})**

**db.enron.updateMany({recipients:/@enron.com/},{$set: {recipients:"\*\*\*@enron.com"}})**

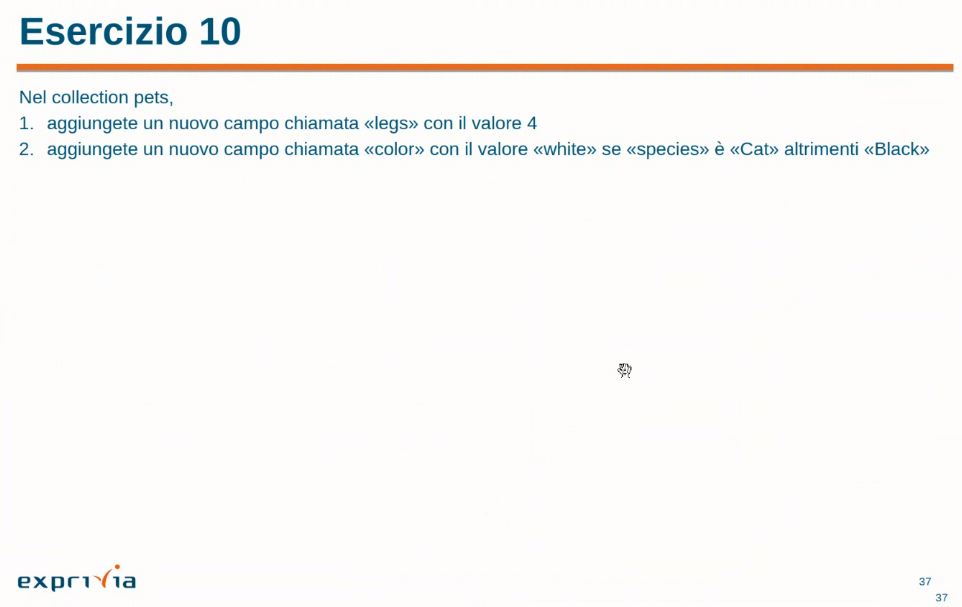
**Esercizio 9:**

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**9**

**db.enron.find({$and:[{text:/fraud/},{text:/yahoo/}]},{text:true, \_id:false}).pretty()**

**Esercizio 10:**

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**10.1**

**db.pets.updateMany(**

**{},**

**{"$set": {"legs": 4}})**

**10.2**

**db.pets.updateMany(**

**{species:"Cat"},**

**{"$set": {"color": "white"}})**

**prima bisogna fare una verifica e poi usare il filtro nel update:**

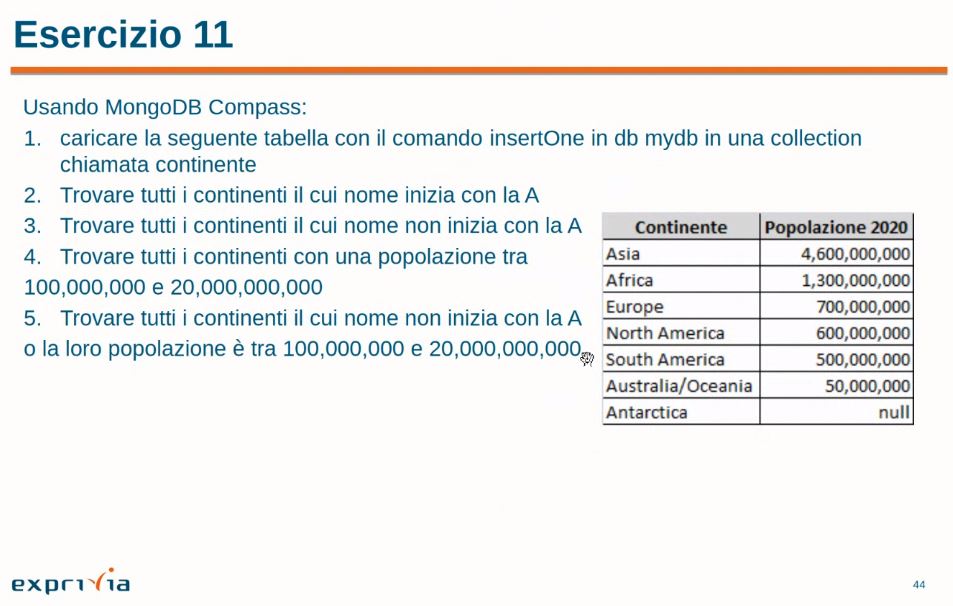
**db.pets.find({ species: {$ne: "Cat"} })**

**db.pets.updateMany(**

**{ species: {$ne: "Cat"} },**

**{"$set": {"color": "Black"}})**

**Esercizio 11:**

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**11.1**

**nel shell di mongo**

**db.continente.insert({Continente: "Asia", "Popolazione 2020": 4600000000 })**

**db.continente.insert({continente: "Africa", "Popolazione 2020": 4300000000 })**

**db.continente.insert({continente: "Europe", "Popolazione 2020": 700000000 })**

**db.continente.insert({continente: "North America", "Popolazione 2020": 600000000 })**

**db.continente.insert({continente: "South America", "Popolazione 2020": 500000000 })**

**db.continente.insert({continente: "Australia/Oceania", "Popolazione 2020": 50000000 })**

**db.continente.insert({continente: "Antarctica", "Popolazione 2020":null})**

**in compass**

**[**

**{"continente": "Asia", "Popolazione 2020": 4600000000 },**

**{"continente": "Africa", "Popolazione 2020": 1300000000 },**

**{"continente": "Europe", "Popolazione 2020": 700000000 },**

**{"continente": "North America", "Popolazione 2020": 600000000 },**

**{"continente": "South America", "Popolazione 2020": 500000000 },**

**{"continente": "Australia/Oceania", "Popolazione 2020": 50000000 },**

**{"continente": "Antarctica", "Popolazione 2020":null}**

**]**

**11.2**

**db.continente.find({continente:/^A/})**

**in compass**

**{continente:/^A/}**

**11.3**

**db.continente.find({continente: {$not: /^A/}})**

**in compass**

**{continente: {$not: /^A/}}**

**11.4**

**db.continente.find({$and: [{"Popolazione 2020":{$lt: 2000000000}},{"Popolazione 2020":{$gt: 100000000}}] })**

**in compass**

**{$and: [{"Popolazione 2020":{$lt: 2000000000}},{"Popolazione 2020":{$gt: 100000000}}] }**

**11.5**

**{$or:**

**[**

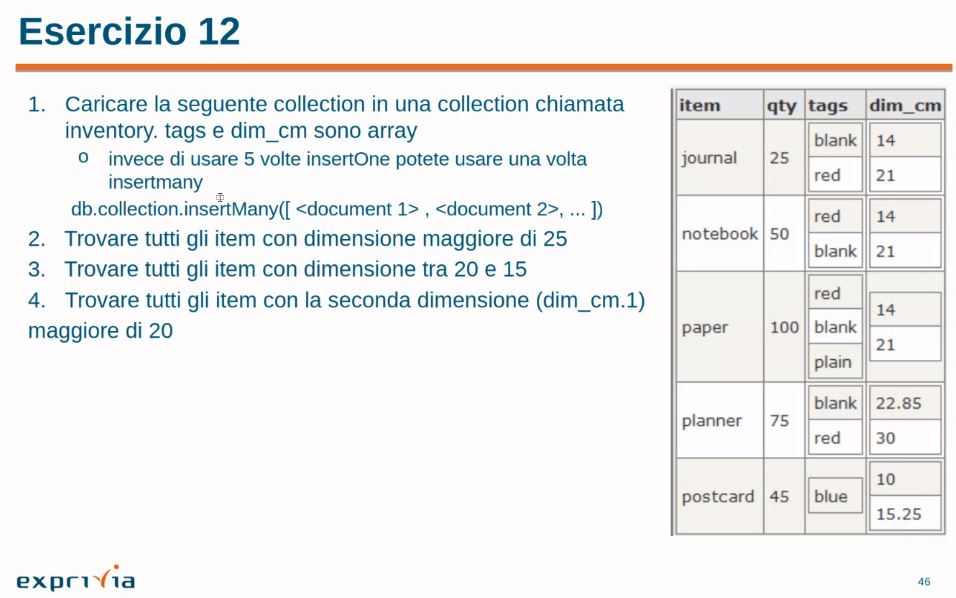
**{continente: {$not: /^A/}}**

**,**

**{$and: [{"Popolazione 2020":{$lt: 2000000000}},{"Popolazione 2020":{$gt: 100000000}}] }**

**]}**

**Esercizio 12:**

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**12.1**

**db.inventory.insertMany( [**

**{ item: "journal" , qty:25 ,tags:["blank","red"] ,dim\_cm:[14,21]},**

**{ item: "notebook" , qty:50, tags:["red","blank"], dim\_cm:[14,21]},**

**{ item: "paper", qty:100, tags:["red","blank","plain"], dim\_cm:[14,21]},**

**{ item: "planner", qty:75, tags:["blank","red"], dim\_cm:[22.85,30]},**

**{ item: "postcard", qty:45, tags:["blue"], dim\_cm:[10,15.25]}**

**])**

**12.2**

**db.inventory.find({dim\_cm:{$gt: 25}})**

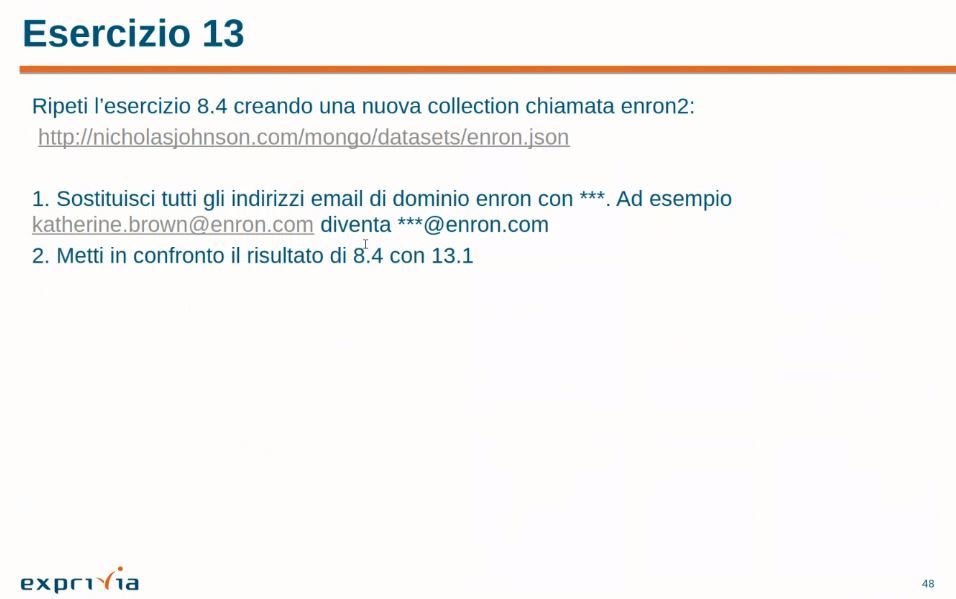
**12.3**

**db.inventory.find({dim\_cm:{$gt: 15, $lt:20}})**

**12.4**

**db.inventory.find({"dim\_cm.1":{$gt: 20}})**

**Esercizio 13:**

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**wget "http://nicholasjohnson.com/mongo/datasets/stocks.json" -o enron2.json**

**-> Punto 1**

**docker exec -it mongodb mongoimport --db mydb --collection enron2 --file /data/db/enron.json**

**-> Punto 2**

**db.enron2.updateMany(**

**{},**

**{$set:{"recipients.$[element]": "\*\*\*@enron.com" }},**

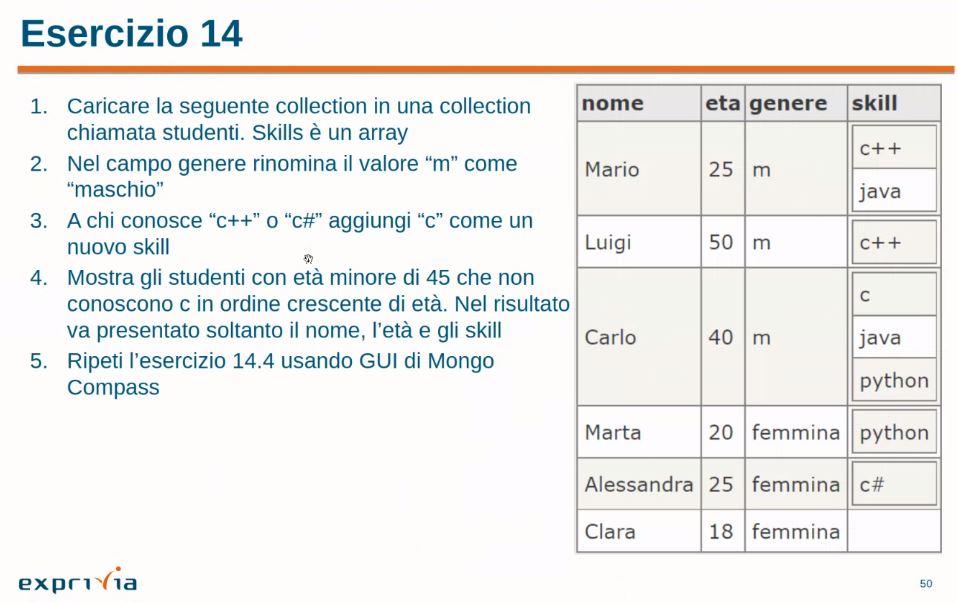
**{arrayFilters:[{element:/@enron.com$/}]}**

**)**

**db.enron2.find({ recipients: /@enron.com/ }, { recipients: true })**

**-> Punto 3**

**Esercizio 14:**

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**14.1**

**db.studenti.insertMany( [**

**{**

**"nome": "Mario",**

**"eta": 25,**

**"genere": "m",**

**"skill": [**

**"c++",**

**"java"**

**]**

**},**

**{**

**"nome": "Luigi",**

**"eta": 50,**

**"genere": "m",**

**"skill": [**

**"c++"**

**]**

**},**

**{**

**"nome": "Carlo",**

**"eta": 40,**

**"genere": "m",**

**"skill": [**

**"c",**

**"java",**

**"python"**

**]**

**},**

**{**

**"nome": "Marta",**

**"eta": 20,**

**"genere": "femmina",**

**"skill": [**

**"python"**

**]**

**},**

**{**

**"nome": "Alessandra",**

**"eta": 25,**

**"genere": "femmina",**

**"skill": [**

**"c#"**

**]**

**},**

**{**

**"nome": "Clara",**

**"eta": 18,**

**"genere": "femmina"**

**}**

**]**

**)**

**14.2**

**db.studenti.updateMany(**

**{genere:"m"},**

**{$set:{genere:"maschio"}}**

**)**

**14.3**

**step1: filtrare chi conosce c++ o c#**

**db.studenti.find({ $or: [{ skill: "c++" }, { skill: "c#" }] })**

**step2: updateMany**

**db.studenti.updateMany({ $or: [{ skill: "c++" }, { skill: "c#" }] },**

**{$push:{"skill":"c"}})**

**14.4**

**db.studenti.find(**

**{eta:{$lt: 45},skill:{$ne:"c"}},**

**{nome:1, eta:1, skill:1,\_id:0}**

**).sort({"eta":1})**

**Lezione 8:**

**Esercizi con IntelliJ IDEA:**

**Esercizio 1:**

****

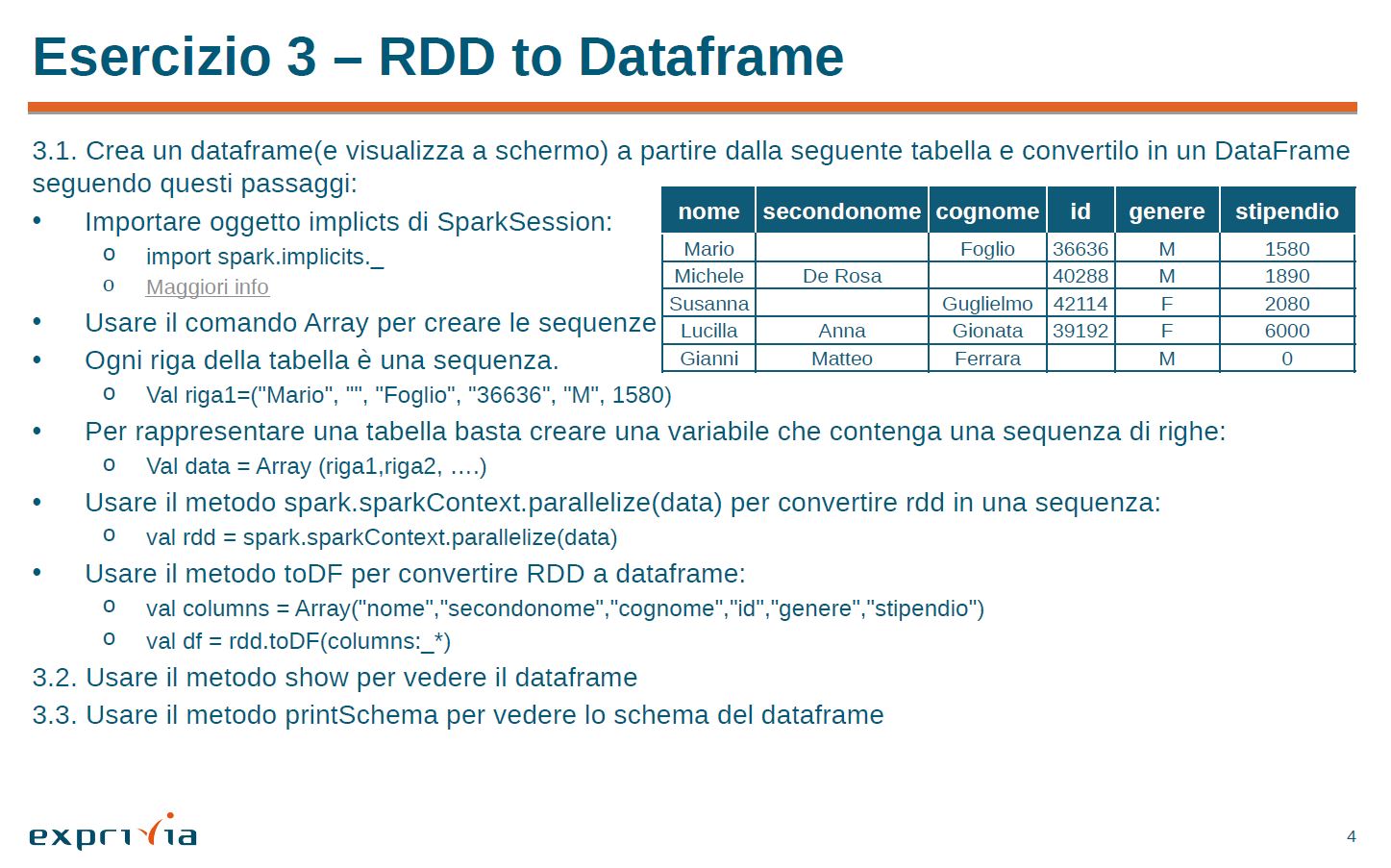
package elementari  
  
object HelloWorld  
{  
 def main(args: Array[String]): Unit =  
 {  
 System.out.println("Hello world!")  
 }  
}

**Esercizio 2:**

****

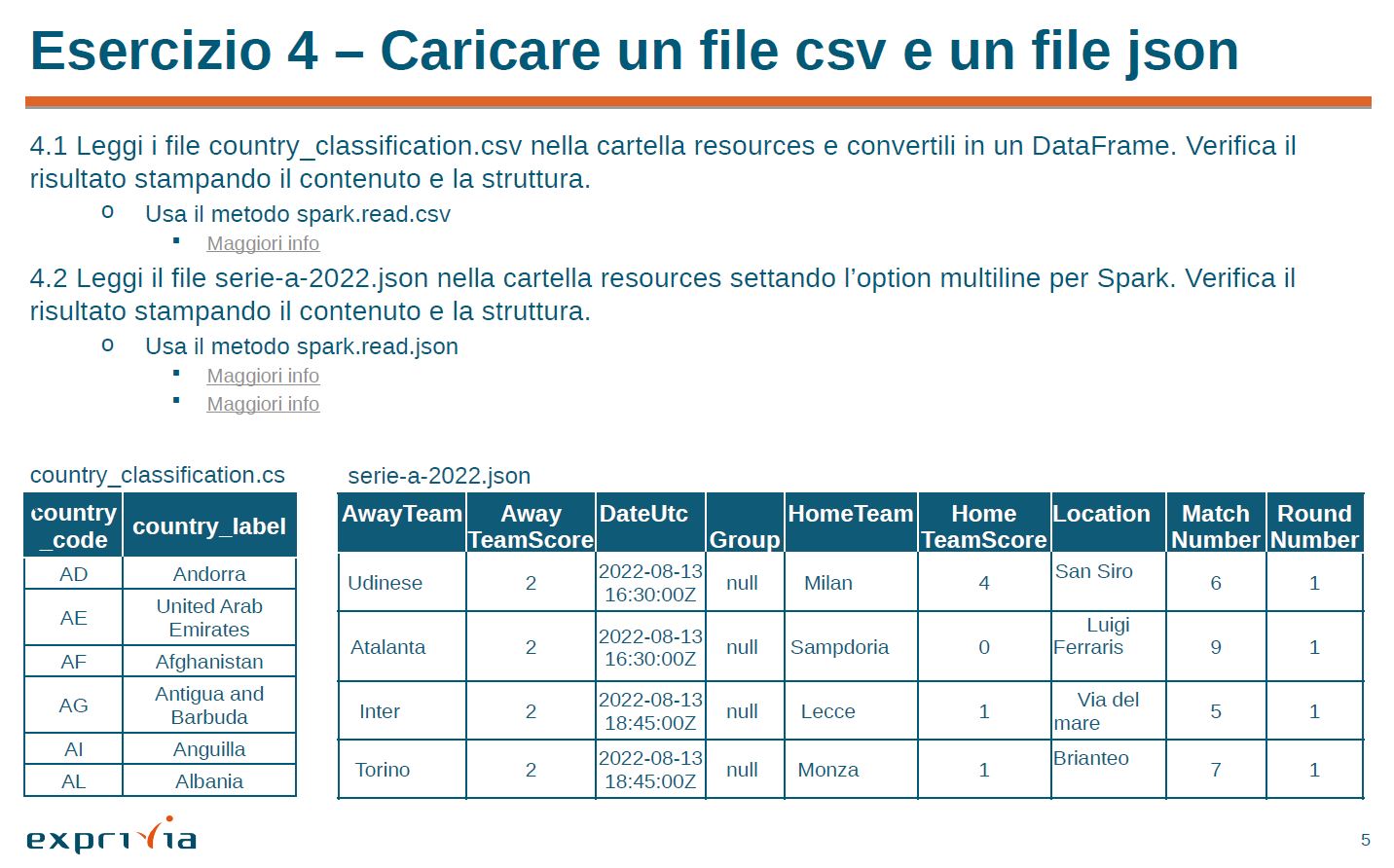
package elementari  
  
import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.SparkSession  
  
object CreazioneSparkSession  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.getRootLogger.setLevel(Level.WARN)  
  
 val sparkSes = SparkSession.builder()  
 .master("local[\*]")  
 .appName("CreateSparkSession")  
 .getOrCreate();  
  
 println("Spark Version : " + sparkSes.version)  
 }  
}

**Esercizio 3:**

****

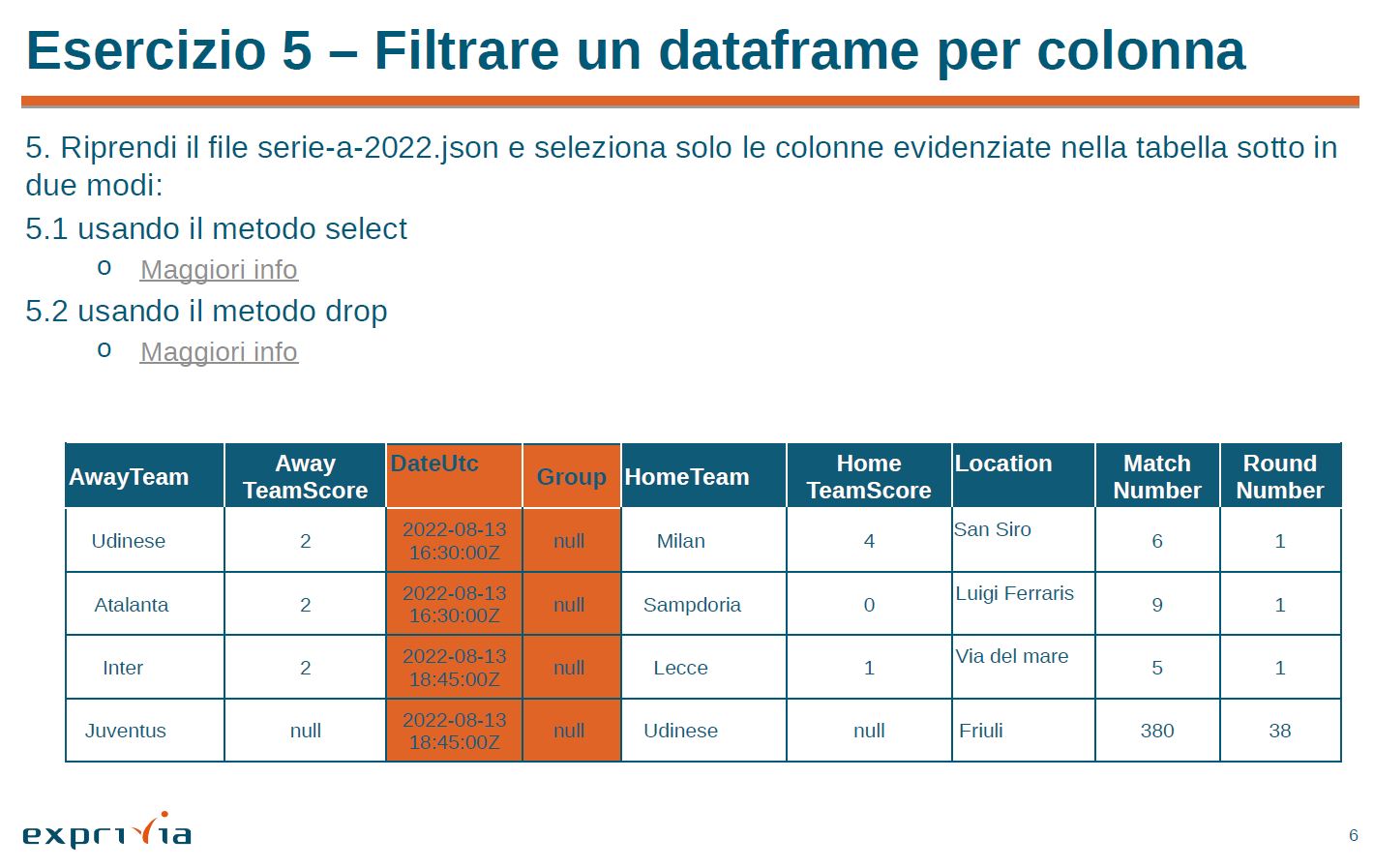
package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.log4j.{Level, Logger}  
  
object ConvertRDD\_ToDataFrame  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.getRootLogger.setLevel(Level.WARN)  
  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 import spark.implicits.\_  
  
 val data = Array(  
 ("Mario", "", "Foglio", "36636", "M", 1580),  
 ("Michele", "De Rosa", "", "40288", "M", 1890),  
 ("Susanna", "", "Guglielmo", "42114", "F", 2080),  
 ("Lucilla", "Anna", "Gionata", "39192", "F", 6000),  
 ("Gianni", "Matteo", "Ferrara", "", "M", 0)  
 )  
  
 val rdd = spark.sparkContext.parallelize(data)  
  
 val columns = Array("nome", "secondonome", "cognome", "id", "genere", "stipendio")  
  
 val df = rdd.toDF(columns: \_\*)  
 df.show  
 df.printSchema()  
 }  
}

**Esercizio 4:**

****

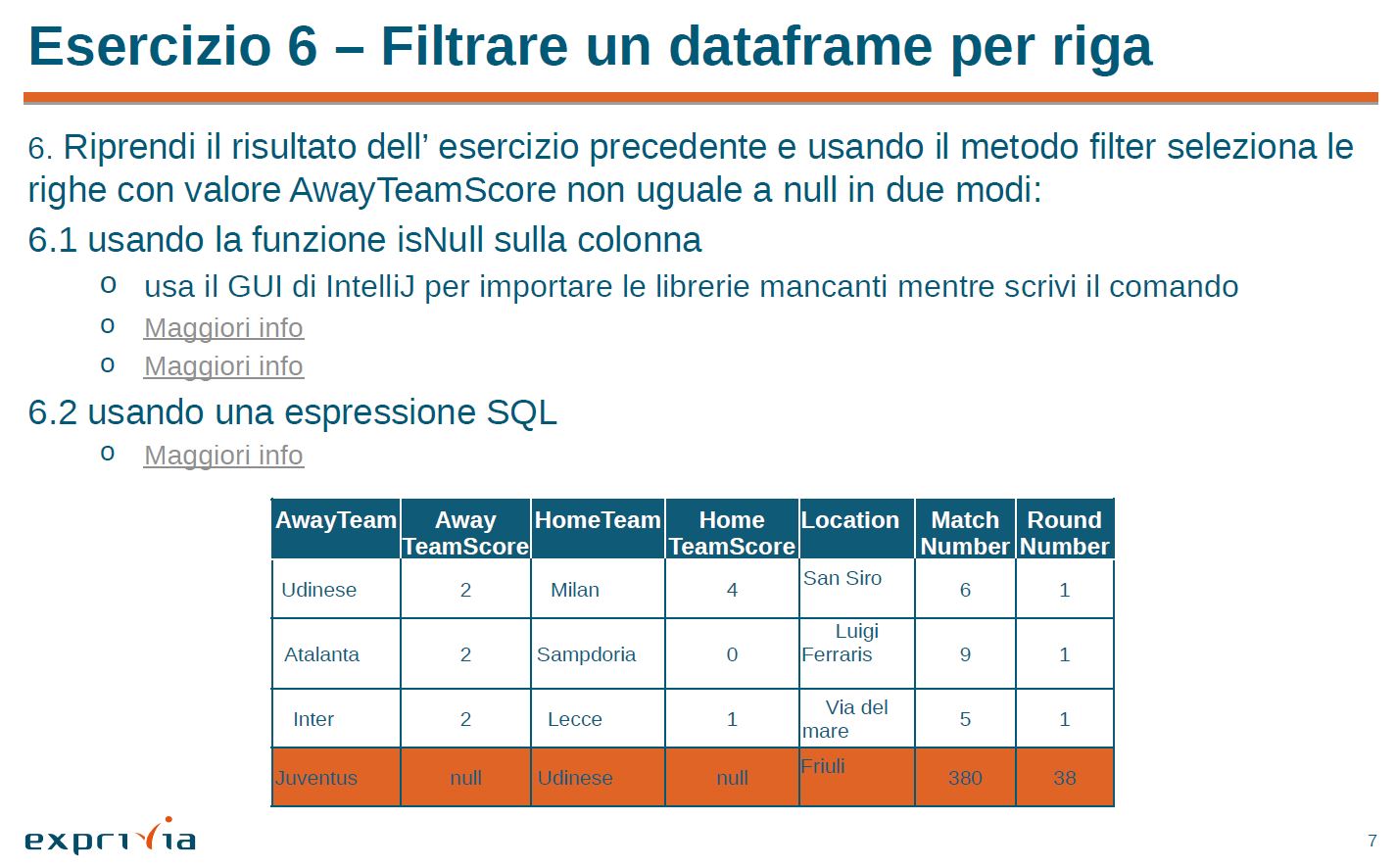
package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.log4j.{Level, Logger}  
  
object Caricamento\_CSV\_JSON  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.getRootLogger.setLevel(Level.WARN)  
  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_csv = spark.read  
 .options(Map("inferSchema" -> "true", "delimiter" -> ",", "header" -> "true"))  
 .csv("C:\\Users\\utente\\Desktop\\country\_classification.csv")  
 df\_csv.printSchema()  
 df\_csv.show()  
  
 val df\_json = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\serie-a-2022.json")  
 df\_json.printSchema()  
 df\_json.show(false)  
 }  
}

**Esercizio 5:**

****

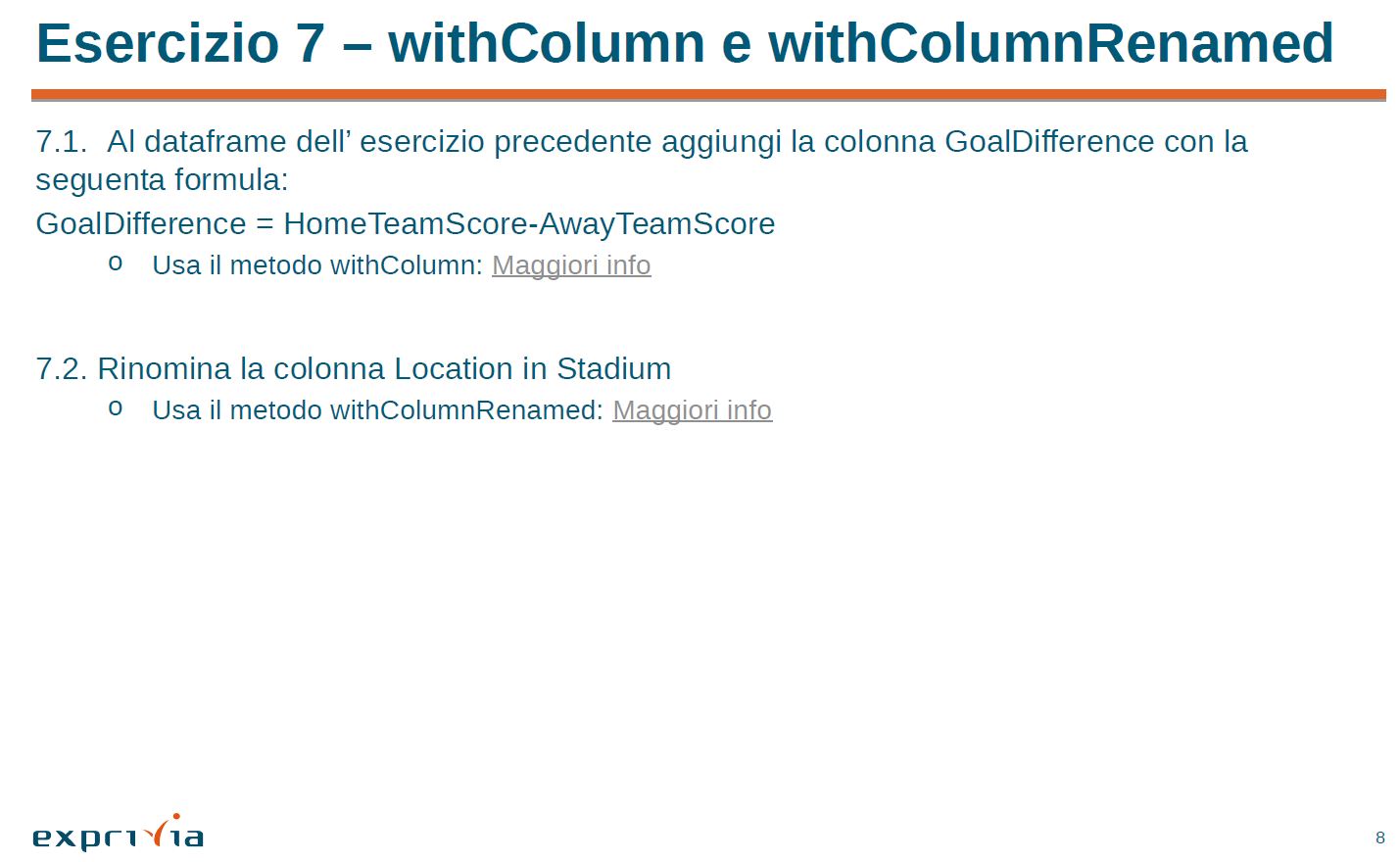
package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.log4j.{Level, Logger}  
  
object FiltroDataframeColonna  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.getRootLogger.setLevel(Level.WARN)  
  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_json = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\serie-a-2022.json")  
 df\_json.printSchema()  
 df\_json.show(false)  
  
 val df\_json\_select = df\_json.select("AwayTeam", "AwayTeamScore", "HomeTeam", "HomeTeamScore", "Location", "MatchNumber", "RoundNumber")  
 df\_json\_select.printSchema()  
 df\_json\_select.show(false)  
  
 val df\_json\_drop = df\_json.drop("DateUtc", "Group")  
 df\_json\_drop.printSchema()  
 df\_json\_drop.show(false)  
  
 }  
}

**Esercizio 6:**

****

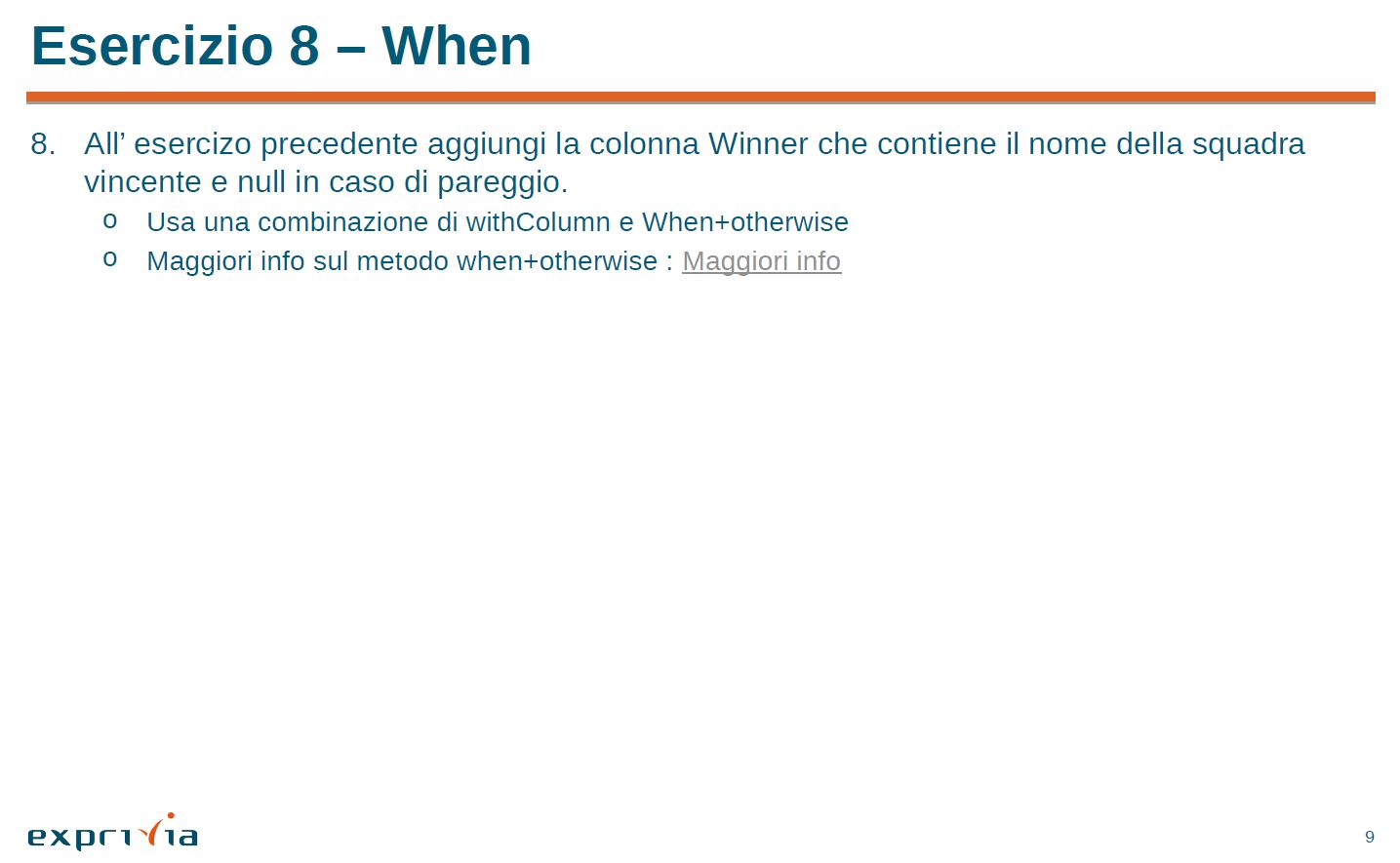
package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.*col*import org.apache.log4j.{Level, Logger}  
  
object FiltroDataframeRiga  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_json = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\serie-a-2022.json")  
 df\_json.printSchema()  
 df\_json.show(false)  
  
 // val df\_json\_select = df\_json.select("AwayTeam","AwayTeamScore","HomeTeam","HomeTeamScore","Location","MatchNumber","RoundNumber")  
 // df\_json\_select.printSchema()  
 // df\_json\_select.show(false)  
  
 val df\_json\_drop = df\_json.drop("DateUtc", "Group")  
 // // df\_json\_drop.printSchema()  
 // // df\_json\_drop.show(false)  
 val df\_json\_filter1 = df\_json\_drop.filter(!*col*("AwayTeamScore").isNull)  
 df\_json\_filter1.show  
  
 val df\_json\_filter2 = df\_json\_drop.filter(("AwayTeamScore is not null"))  
 df\_json\_filter2.show  
 }  
}

**Esercizio 7:**

****

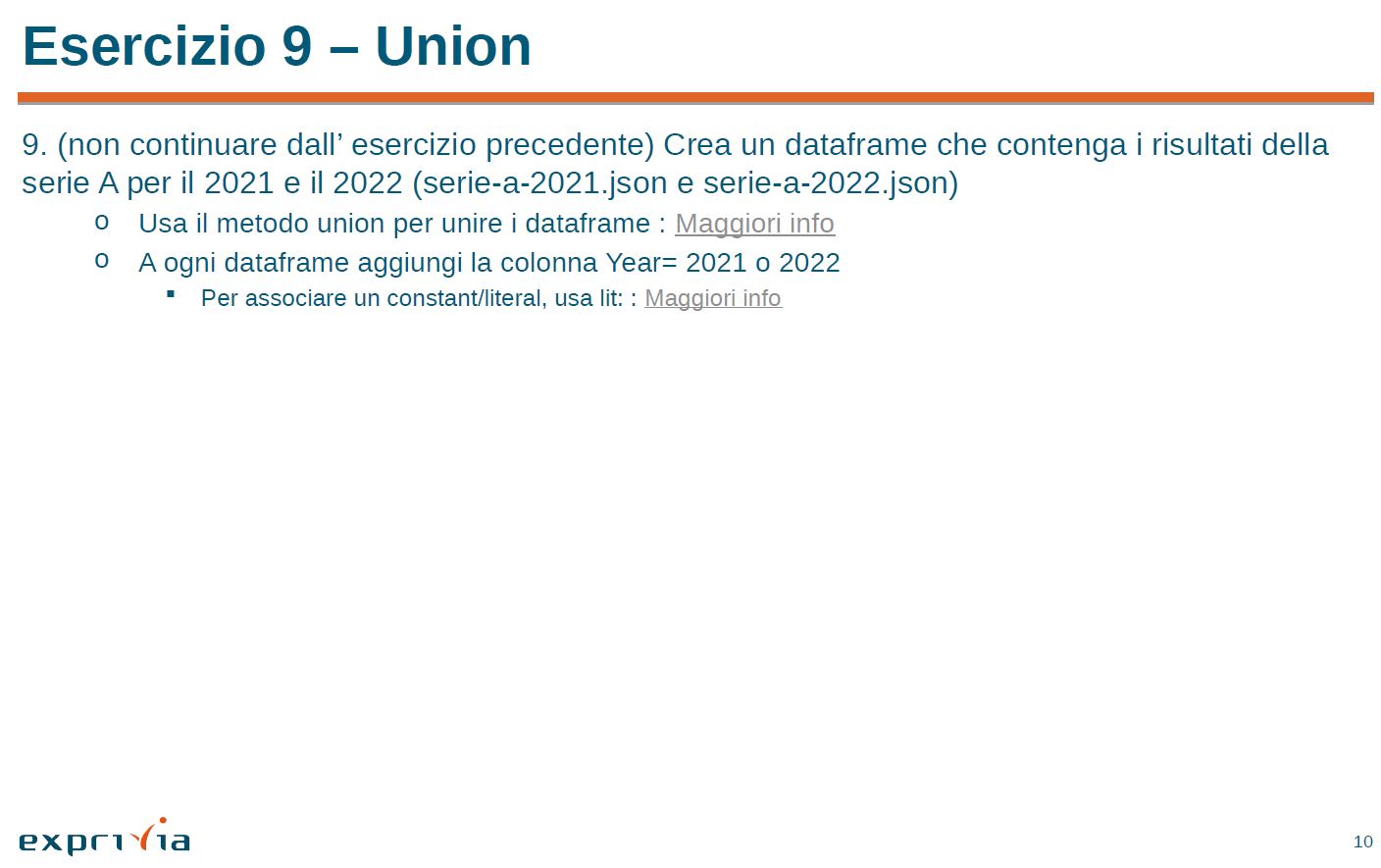
package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.*col*import org.apache.log4j.{Level, Logger}  
  
object WithColumn\_WithColumnRenamed  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_json = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\serie-a-2022.json")  
 // df\_json.printSchema()  
 // df\_json.show(false)  
  
 val df\_json\_drop = df\_json.drop("DateUtc", "Group")  
 val df\_json\_filter1 = df\_json\_drop.filter(!*col*("AwayTeamScore").isNull)  
 // df\_json\_filter1.show  
  
 val df\_withColumn = df\_json\_filter1.withColumn("GoalDifference", *col*("HomeTeamScore") - *col*("AwayTeamScore"))  
 df\_withColumn.show  
  
 val df\_withColumnRenamed = df\_withColumn.withColumnRenamed("Location", "Stadium")  
 df\_withColumnRenamed.show  
 }  
}

**Esercizio 8:**

****

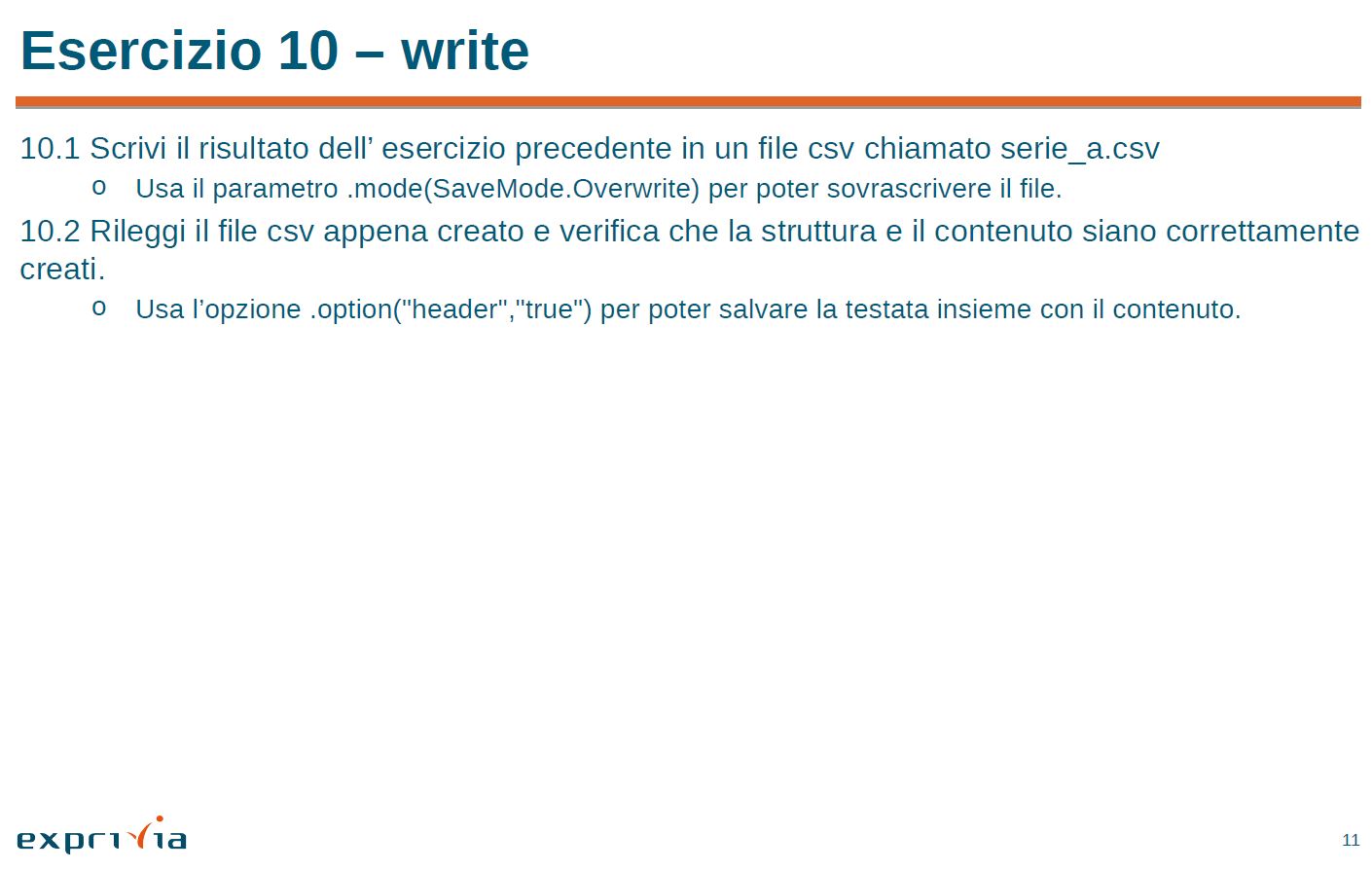
package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.{*col*, *when*}  
import org.apache.log4j.{Level, Logger}  
  
object When  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_json = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\serie-a-2022.json")  
 // df\_json.printSchema()  
 // df\_json.show(false)  
  
 val df\_json\_drop = df\_json.drop("DateUtc", "Group")  
 val df\_json\_filter1 = df\_json\_drop.filter(!*col*("AwayTeamScore").isNull)  
 //df\_json\_filter1.show  
  
 val df\_withColumn = df\_json\_filter1.withColumn("GoalDifference", *col*("HomeTeamScore") - *col*("AwayTeamScore"))  
 //df\_withColumn.show  
  
 val df\_withColumnRenamed = df\_withColumn.withColumnRenamed("Location", "Stadium")  
 //df\_withColumnRenamed.show  
  
 val df\_when = df\_withColumnRenamed.withColumn("Winner",  
 *when*(*col*("GoalDifference") > 0, *col*("HomeTeam")).  
 when(*col*("GoalDifference") < 0, *col*("AwayTeam")).  
 otherwise(null)  
 )  
 df\_when.show  
 }  
}

**Esercizio 9:**

****

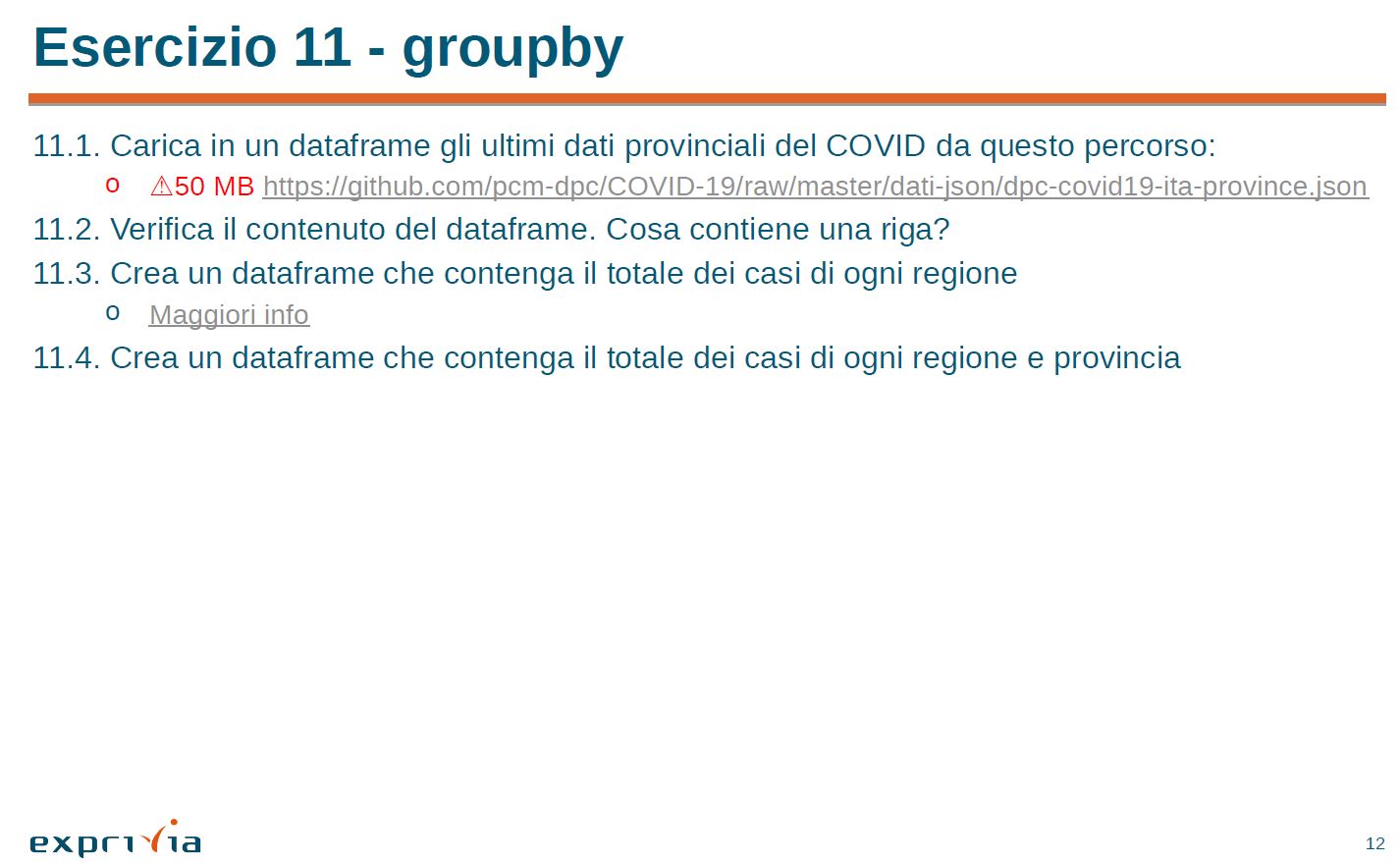
package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.{*col*, *lit*, *when*}  
import org.apache.log4j.{Level, Logger}  
  
object Union  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_2022 = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\serie-a-2022.json")  
 .withColumn("Year", *lit*("2022"))  
 //df\_2022.show  
  
 val df\_2021 = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\serie-a-2021.json")  
 .withColumn("Year", *lit*("2021"))  
 //df\_2021.show  
  
 val df\_serie\_a = df\_2021.union(df\_2022)  
 df\_serie\_a.show  
 }  
}

**Esercizio 10:**

****

package elementari  
  
import org.apache.spark.sql.{SaveMode, SparkSession}  
import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.functions.*lit*object Write  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .master("local")  
 .appName("SerieAResults")  
 .getOrCreate()  
  
 val df\_2021 = spark.read.option("multiline", "true").json("C:\\Users\\utente\\Desktop\\serie-a-2021.json")  
 val df\_2022 = spark.read.option("multiline", "true").json("C:\\Users\\utente\\Desktop\\serie-a-2022.json")  
  
 val df\_2021\_withYear = df\_2021.withColumn("Year", *lit*(2021))  
 val df\_2022\_withYear = df\_2022.withColumn("Year", *lit*(2022))  
  
 val df\_combined = df\_2021\_withYear.union(df\_2022\_withYear)  
  
 // Mi scrive il file csv all'interno del folder output all'interno del progetto scala\_advanced  
 df\_combined.write.mode(SaveMode.*Overwrite*).csv("output/serie\_a.csv")  
  
 val df\_read = spark.read.option("header", "true").csv("output/serie\_a.csv")  
 df\_read.show(false)  
  
 spark.stop()  
 }  
}

**Esercizio 11:**

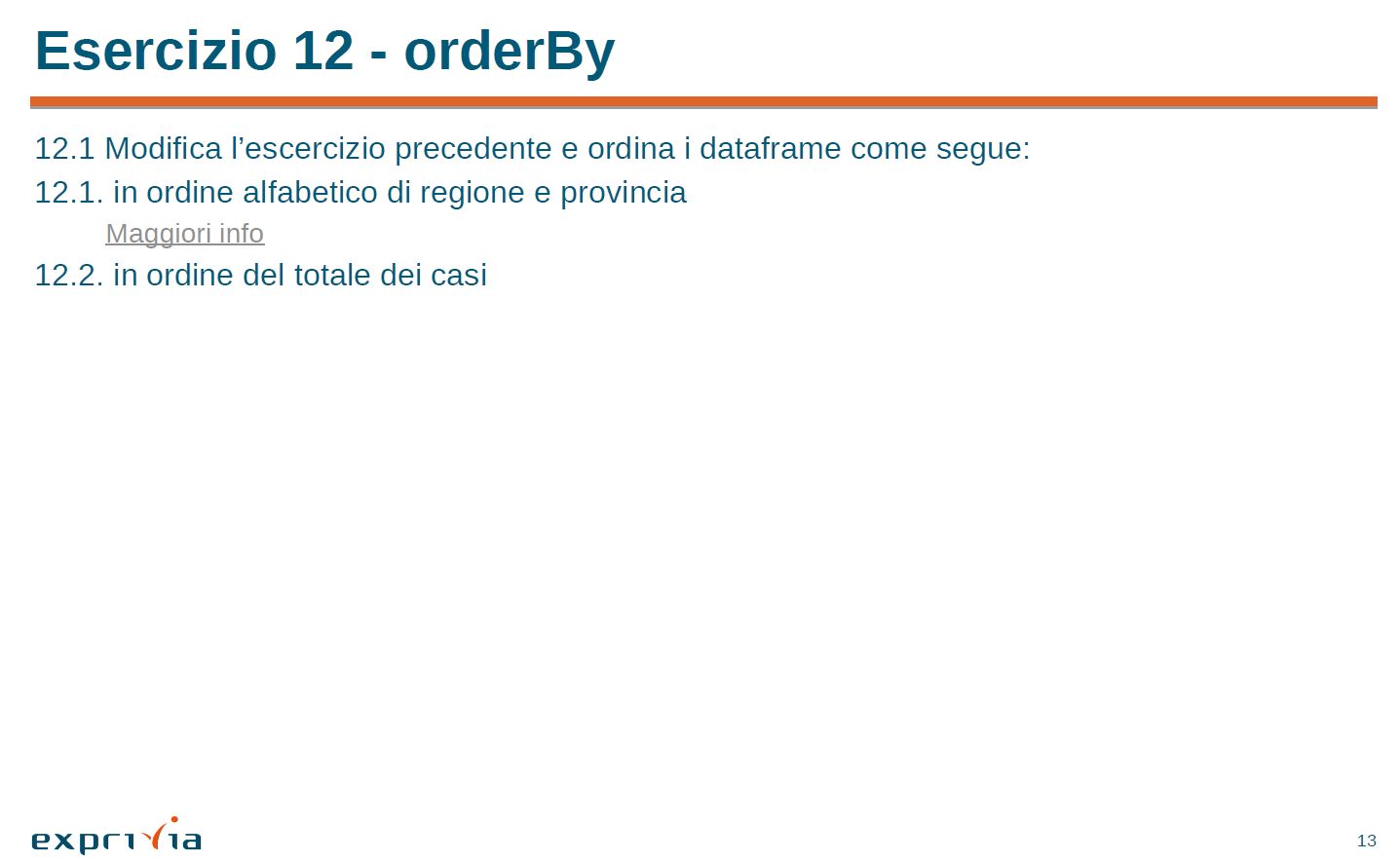
****

package elementari  
  
import org.apache.spark.sql.{SaveMode, SparkSession}  
import org.apache.spark.sql.functions.\_  
import org.apache.log4j.{Level, Logger}  
  
object GroupBy  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_covid = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\dpc-covid19-ita-province.json")  
  
 df\_covid.show  
  
 val df\_covid\_groupby1 = df\_covid  
 .groupBy("denominazione\_regione")  
 .agg(*sum*("totale\_casi").as("totale\_casi"))  
  
 val df\_covid\_groupby2 = df\_covid  
 .groupBy("denominazione\_regione", "denominazione\_provincia")  
 .agg(*sum*("totale\_casi").as("totale\_casi"))  
 df\_covid\_groupby2.show  
  
 }  
}

**Lezione 9:**

**Esercizi con IntelliJ IDEA:**

**Esercizio 12:**

****

package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.*col*import org.apache.log4j.{Level, Logger}  
  
object OrderBy  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_covid = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\dpc-covid19-ita-province.json")  
  
 df\_covid.show  
  
 val df\_covid\_groupby1\_1 = df\_covid.groupBy("denominazione\_regione")  
 .sum("totale\_casi")  
 .orderBy(col("denominazione\_regione").asc)  
 df\_covid\_groupby1\_1.show  
  
 val df\_covid\_groupby1\_2 = df\_covid.groupBy("denominazione\_regione")  
 .sum("totale\_casi")  
 .orderBy(col("sum(totale\_casi)").desc)  
 df\_covid\_groupby1\_2.show  
  
  
 val df\_covid\_groupby2\_1 = df\_covid.groupBy("denominazione\_regione", "denominazione\_provincia")  
 .sum("totale\_casi")  
 .orderBy(col("denominazione\_regione").asc, col("denominazione\_provincia").asc)  
 df\_covid\_groupby2\_1.show  
  
 val df\_covid\_groupby2\_2 = df\_covid.groupBy("denominazione\_regione", "denominazione\_provincia")  
 .sum("totale\_casi")  
 .orderBy(col("sum(totale\_casi)").desc)  
 df\_covid\_groupby2\_2.show  
 }  
}

**Esercizio 13:**

****

package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.*col*import org.apache.log4j.{Level, Logger}  
  
object Join  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_covid = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\dpc-covid19-ita-province.json")  
  
 // df\_covid.show  
  
 val df\_covid\_groupby1\_1 = df\_covid.groupBy("denominazione\_regione")  
 .sum("totale\_casi")  
 .orderBy(*col*("denominazione\_regione").asc)  
 // df\_covid\_groupby1\_1.show  
  
 val df\_covid\_groupby1\_2 = df\_covid.groupBy("denominazione\_regione")  
 .sum("totale\_casi")  
 .orderBy(*col*("sum(totale\_casi)").desc)  
 // df\_covid\_groupby1\_2.show  
  
  
 val df\_covid\_groupby2\_1 = df\_covid.groupBy("denominazione\_regione", "denominazione\_provincia")  
 .sum("totale\_casi")  
 .orderBy(*col*("denominazione\_regione").asc, *col*("denominazione\_provincia").asc)  
 // df\_covid\_groupby2\_1.show  
  
 val df\_covid\_groupby2\_2 = df\_covid.groupBy("denominazione\_regione", "denominazione\_provincia")  
 .sum("totale\_casi")  
 .orderBy(*col*("sum(totale\_casi)").desc)  
 df\_covid\_groupby2\_2.printSchema()  
 df\_covid\_groupby2\_2.show  
  
 val df\_pop = spark.read  
 .options(Map("inferSchema" -> "true", "delimiter" -> ";", "header" -> "true"))  
 .csv("C:\\Users\\utente\\Desktop\\regioni\_italiane\_per\_popolazione\_mod.csv")  
 .select("Regione", "Popolazione")  
  
 df\_pop.printSchema()  
 df\_pop.show  
  
 val df\_join = df\_covid\_groupby2\_2.join(df\_pop, df\_pop("Regione") === df\_covid\_groupby2\_2("denominazione\_regione"), "left")  
 .withColumnRenamed("Popolazione", "Popolazione\_regione")  
 .drop("Regione")  
  
 df\_join.printSchema()  
 df\_join.show(999)  
 }  
}

**Esercizio 14:**

****

package elementari  
  
import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.SparkSession  
  
object CreateOrReplaceTempView  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .master("local[\*]")  
 .getOrCreate();  
  
 val df\_covid = spark.read  
 .option("multiline", "true")  
 .json("C:\\Users\\utente\\Desktop\\dpc-covid19-ita-province.json")  
  
 // df\_covid.show  
 //  
 // val df\_covid\_groupby1\_1 = df\_covid.groupBy("denominazione\_regione")  
 // .sum("totale\_casi")  
 // .orderBy(col("denominazione\_regione").asc)  
 // df\_covid\_groupby1\_1.show  
 //  
 // val df\_covid\_groupby1\_2 = df\_covid.groupBy("denominazione\_regione")  
 // .sum("totale\_casi")  
 // .orderBy(col("sum(totale\_casi)").desc)  
 // df\_covid\_groupby1\_2.show  
 //  
 //  
 // val df\_covid\_groupby2\_1 = df\_covid.groupBy("denominazione\_regione", "denominazione\_provincia")  
 // .sum("totale\_casi")  
 // .orderBy(col("denominazione\_regione").asc, col("denominazione\_provincia").asc)  
 // df\_covid\_groupby2\_1.show  
 //  
 // val df\_covid\_groupby2\_2 = df\_covid.groupBy("denominazione\_regione", "denominazione\_provincia")  
 // .sum("totale\_casi")  
 // .orderBy(col("sum(totale\_casi)").desc)  
 // df\_covid\_groupby2\_2.show  
  
 df\_covid.createOrReplaceTempView("covid")  
 spark.sql(  
 """  
 select denominazione\_regione,denominazione\_provincia,sum(totale\_casi)  
 from covid  
 group by denominazione\_regione,denominazione\_provincia  
 order by denominazione\_regione,denominazione\_provincia  
 """).show(999)  
  
 df\_covid.createOrReplaceTempView("covid")  
 spark.sql(  
 """  
 select denominazione\_regione,denominazione\_provincia,sum(totale\_casi)  
 from covid  
 group by denominazione\_regione,denominazione\_provincia  
 order by sum(totale\_casi) desc  
 """).show(999)  
 }  
}

**Esercizio 15:**

**Apri docker e avvia il file composer di tipo bat, in modo da accedere a Mongo Express tramite la porta localhost:8081.**

**Usando il database "mydb", crea una collection chiamata Persone.**

**All'interno di essa crea un document e inserisci il seguente codice:**

**[**

**{**

**"Nome": "Mario",**

**"Cognome": "Rossi",**

**"ID": 1,**

**"data\_di\_nascita": {**

**"anno": 1990,**

**"mese": 1,**

**"giorno": 1**

**}**

**},**

**{**

**"Nome": "Laura",**

**"Cognome": "Bianchi",**

**"ID": 2,**

**"data\_di\_nascita": {**

**"anno": 1985,**

**"mese": 5,**

**"giorno": 10**

**}**

**},**

**{**

**"Nome": "Giovanni",**

**"Cognome": "Verdi",**

**"ID": 3,**

**"data\_di\_nascita": {**

**"anno": 1995,**

**"mese": 11,**

**"giorno": 15**

**}**

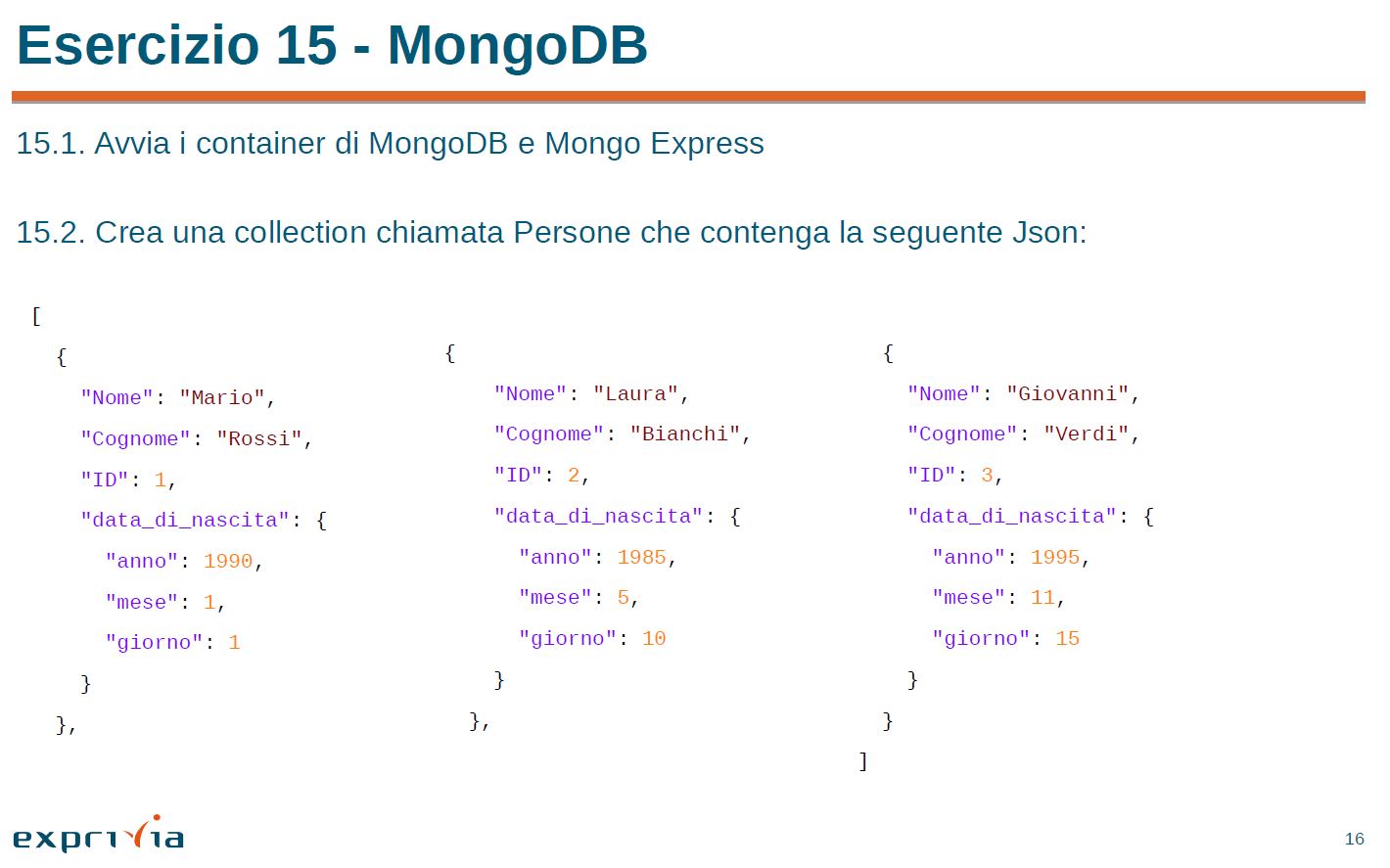
**}**

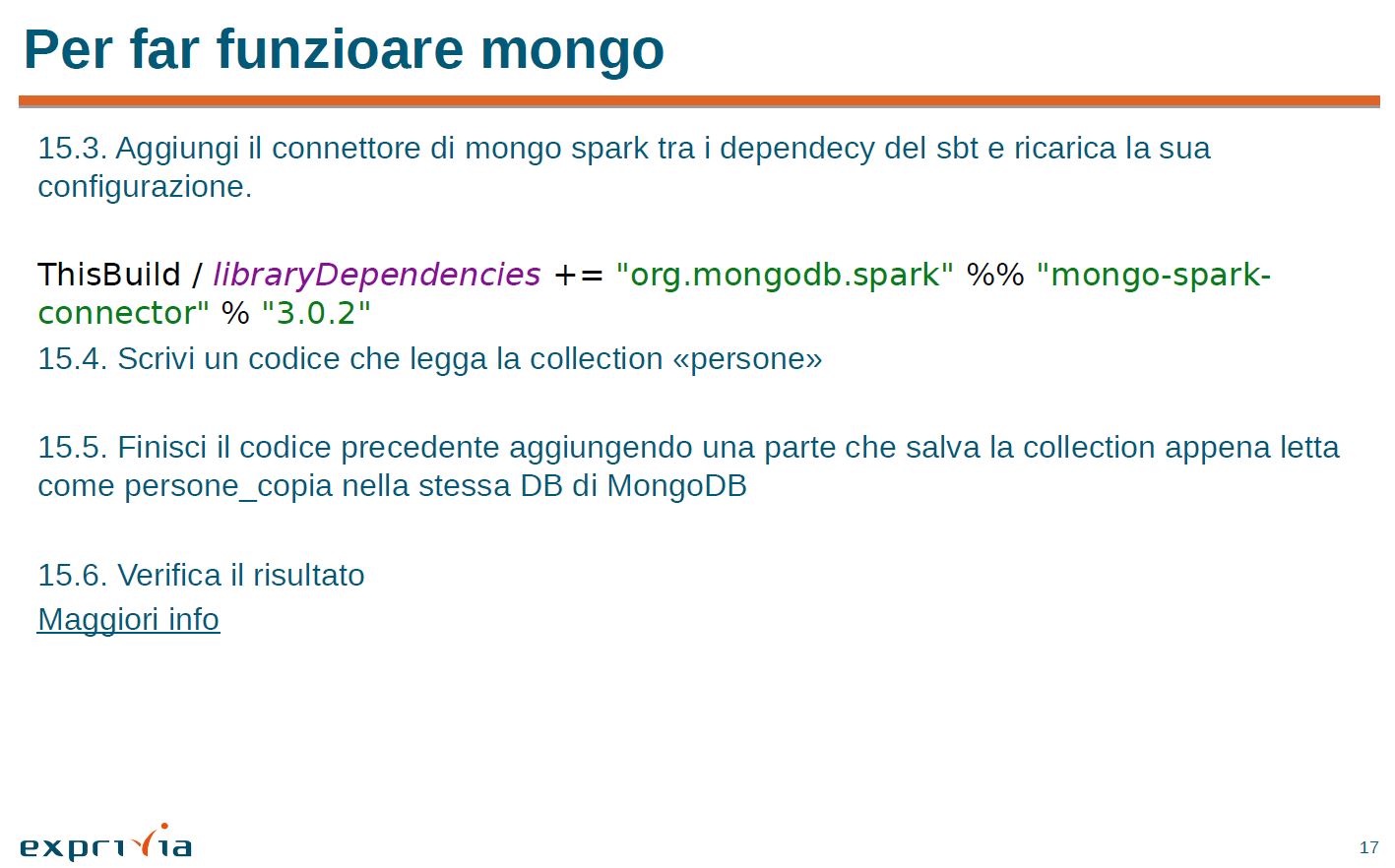
**]**

**E successivamente inserisci la seguente dependency nel build:**

**ThisBuild / libraryDependencies += "org.mongodb.spark" %% "mongo-sparkconnector" % "3.0.2"**

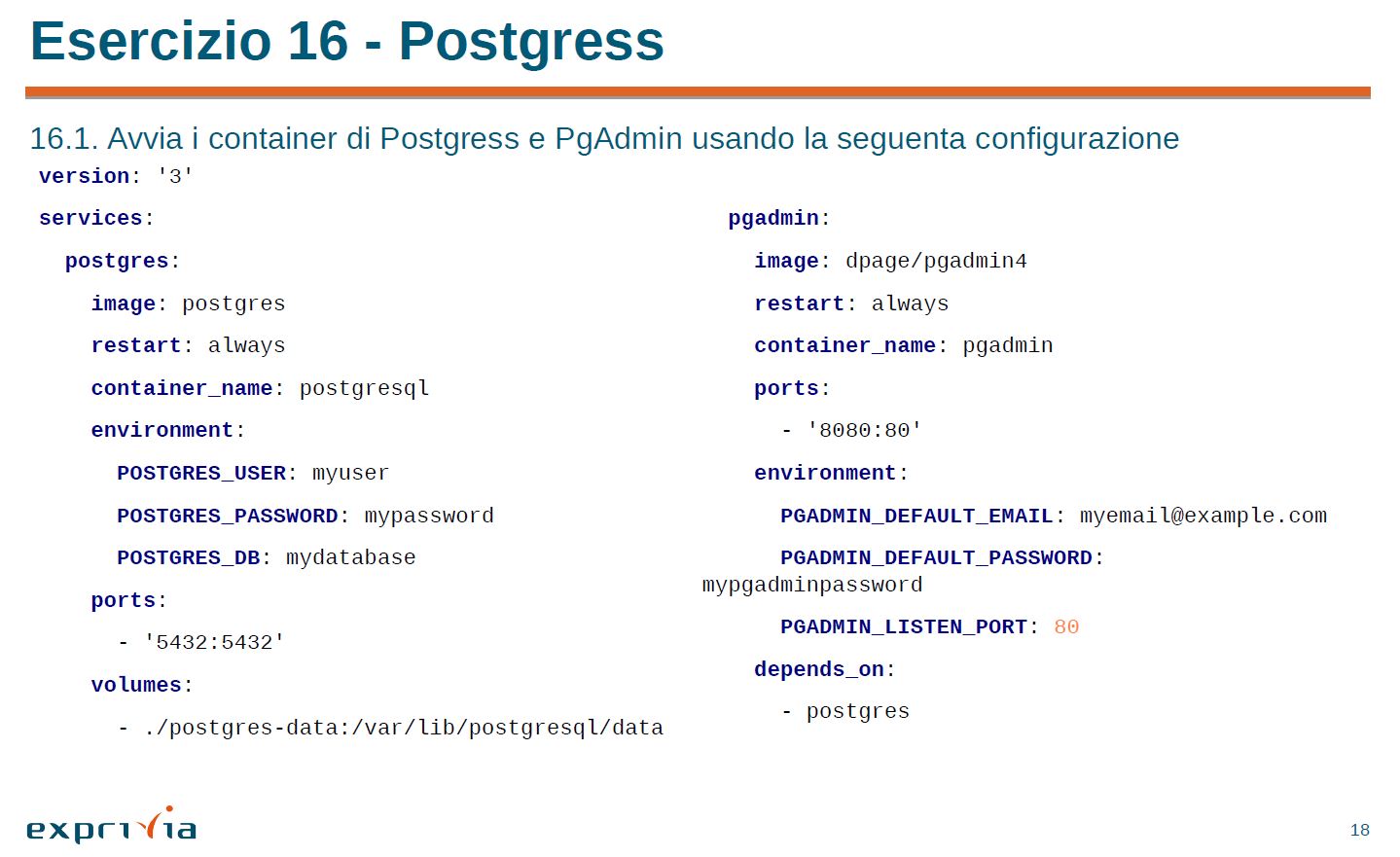
**Infine compila ed esegui il codice di Intellij IDEA.**

****

****

package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.log4j.{Level, Logger}  
  
object MongoDB  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .config("spark.master", "local")  
 .getOrCreate()  
  
 val df = spark.read.format("mongo")  
 .option("spark.mongodb.input.uri", "mongodb://localhost:27018/")  
 .option("database", "mydb")  
 .option("collection", "Persone")  
 .load()  
  
 df.show()  
  
 df.write.format("mongo").mode("overwrite")  
 .option("spark.mongodb.output.uri", "mongodb://localhost:27018/")  
 .option("database", "mydb")  
 .option("collection", "persone\_copy")  
 .save()  
  
 spark.stop()  
 }  
}

**Esercizio 16:**

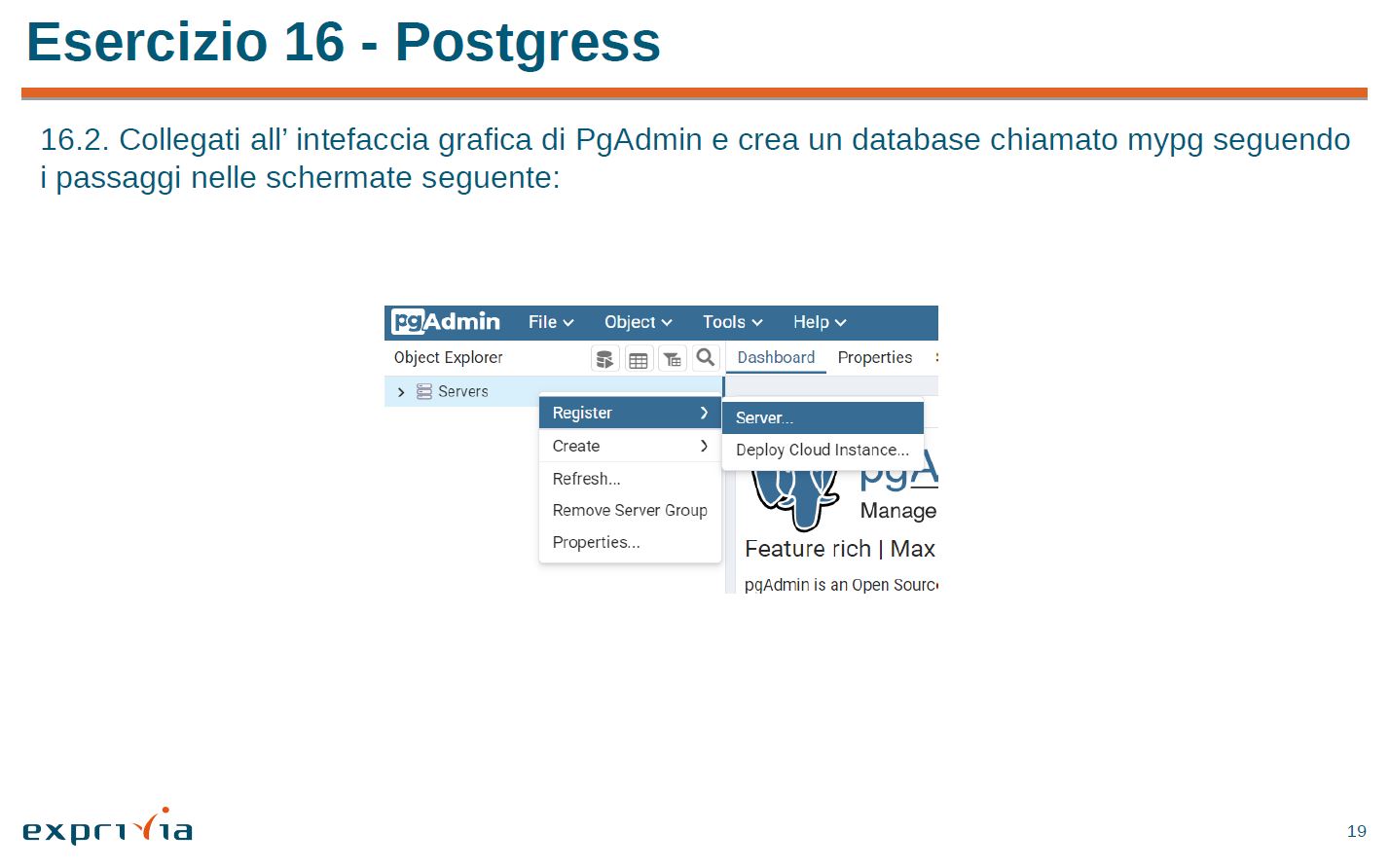
****

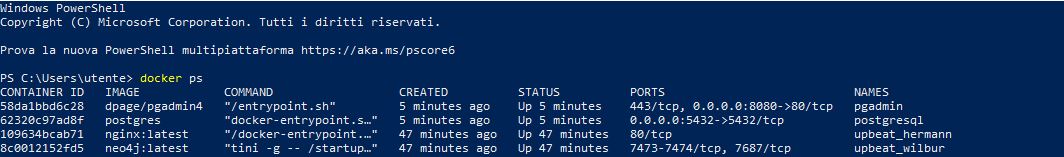
**Avviare il compose up di postgress, avviare il container su docker e andare sulla porta localhost:8080.**

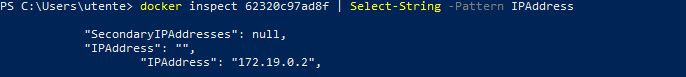
**email: myemail@example.com**

**password: mypgadminpassword**

**Successivamente seguire le istruzioni scritte qui:**

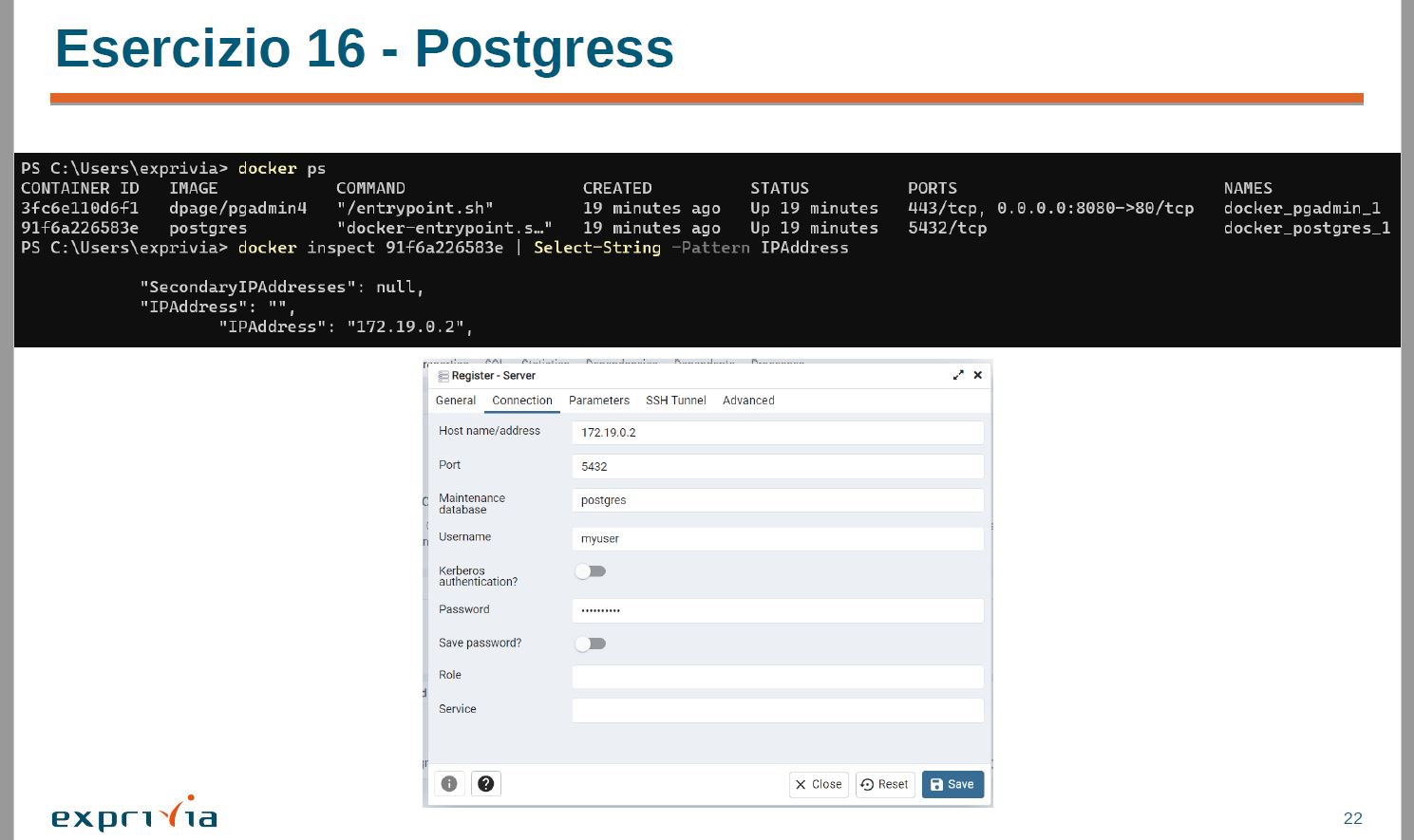
****

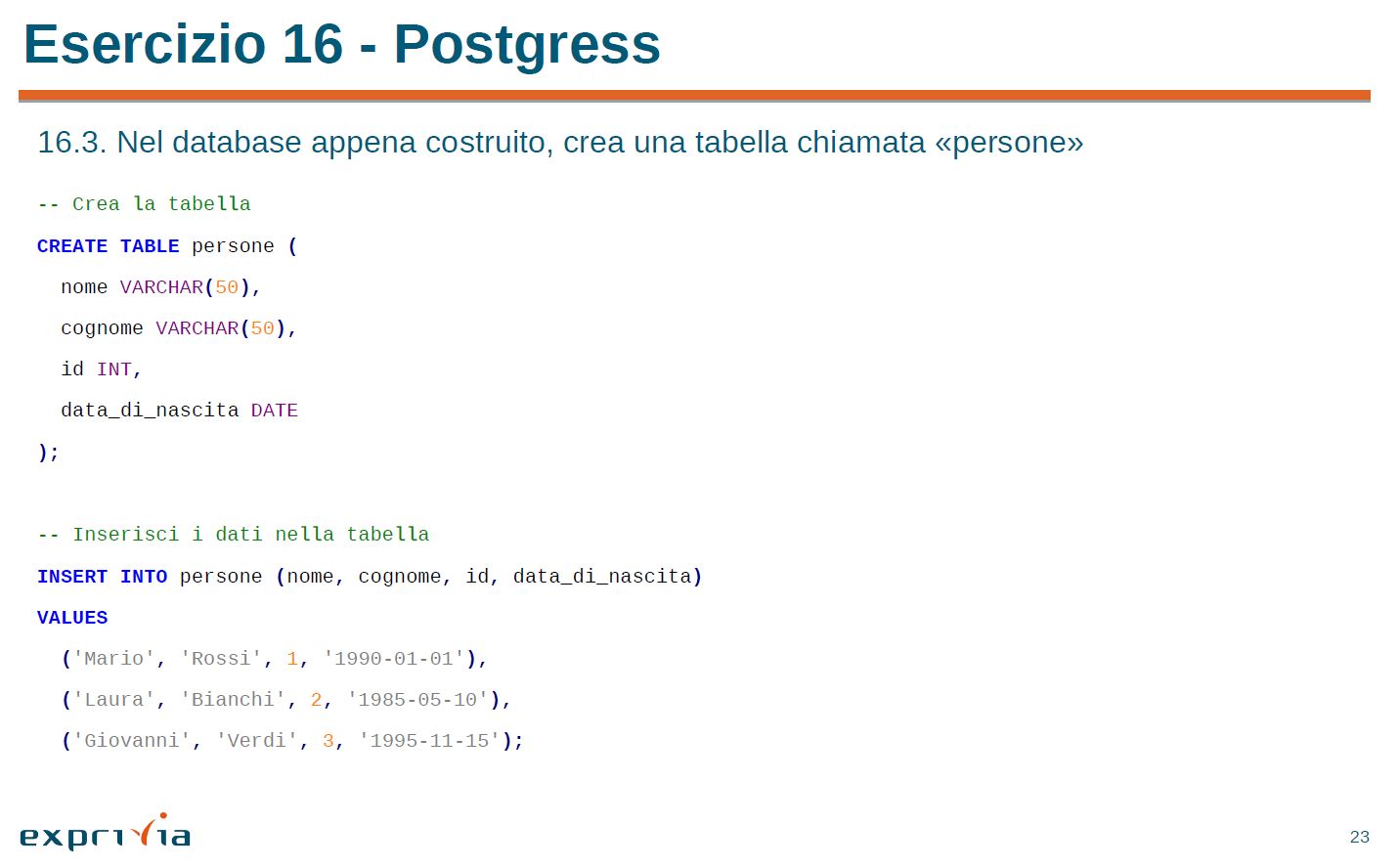
****

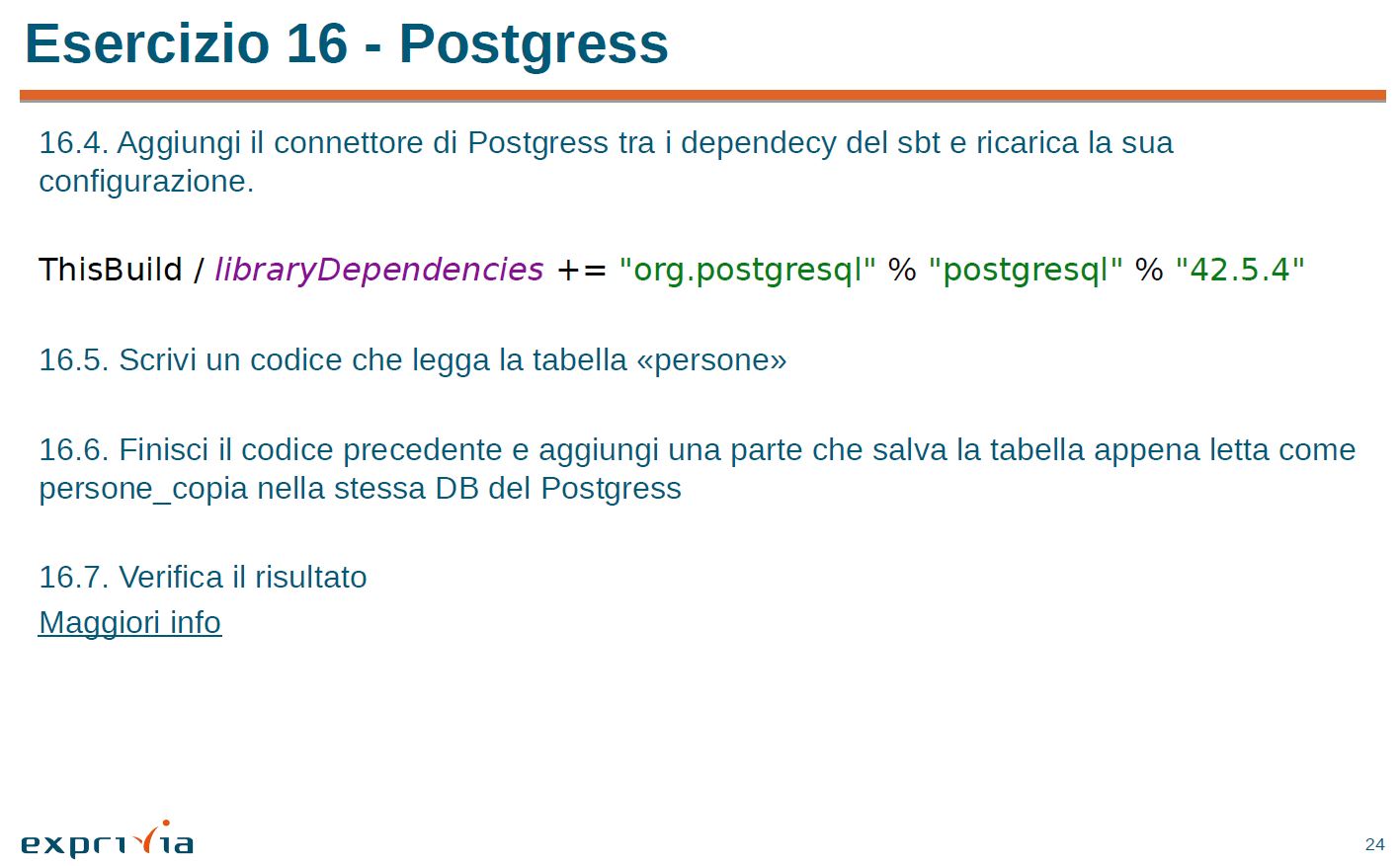
****

**Nel caso in cui debba rifare la connessione a pgadmin:**

****

****

****

****

**Interrogo il database con queste istruzioni:**

**-- Crea la tabella**

**CREATE TABLE persone (**

**nome VARCHAR(50),**

**cognome VARCHAR(50),**

**id INT,**

**data\_di\_nascita DATE**

**);**

**-- Inserisci i dati nella tabella**

**INSERT INTO persone (nome, cognome, id, data\_di\_nascita)**

**VALUES**

**('Mario', 'Rossi', 1, '1990-01-01'),**

**('Laura', 'Bianchi', 2, '1985-05-10'),**

**('Giovanni', 'Verdi', 3, '1995-11-15');**

**E controllo se le righe sono state salvate sul dbms di postgress.**

**Infine compilo ed eseguo il codice di Intellij e dovrebbe uscirci l'output di quello che abbiamo inserito all'interno di postgress:**

package elementari  
  
import org.apache.spark.sql.SparkSession  
import org.apache.log4j.{Level, Logger}  
  
object Postgress  
{  
 def main(args: Array[String]): Unit =  
 {  
 Logger.*getRootLogger*.setLevel(Level.*WARN*)  
  
 val spark = SparkSession.*builder*()  
 .config("spark.master", "local")  
 .getOrCreate()  
  
 val personDF = spark.read  
 .format("jdbc")  
 .option("url", "jdbc:postgresql://localhost:5433/mydatabase")  
 .option("dbtable", "persone")  
 .option("user", "myuser")  
 .option("password", "mypassword")  
 .load()  
  
 val personCopyDF = personDF  
  
 personCopyDF.show()  
  
 personCopyDF.write  
 .format("jdbc")  
 .option("url", "jdbc:postgresql://localhost:5433/mydatabase")  
 .option("dbtable", "persone\_copy")  
 .option("user", "myuser")  
 .option("password", "mypassword")  
 .mode("overwrite")  
 .save()  
  
 spark.stop()  
 }  
}

**Lezione 10:**

**Esercizi con IntelliJ IDEA:**

**Esercizio 1:**

****

****

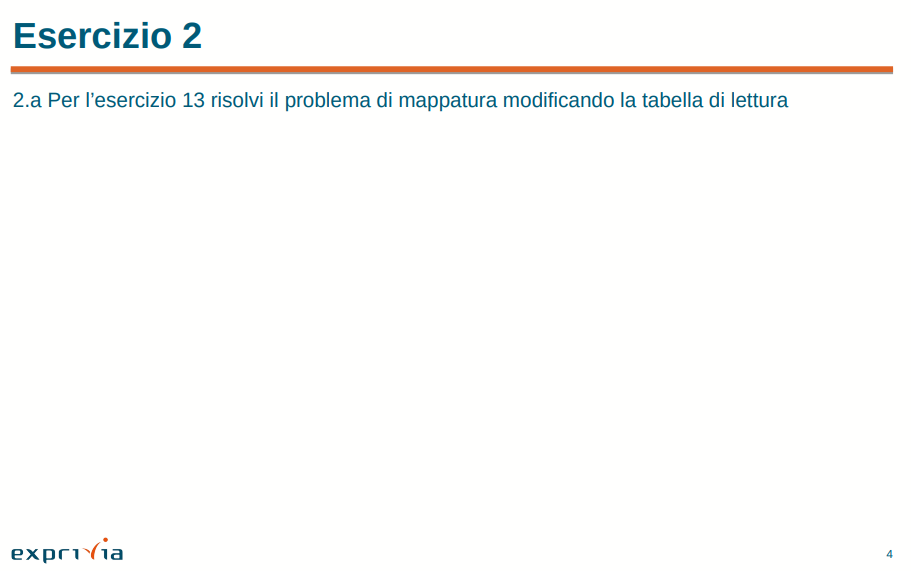
**a):**

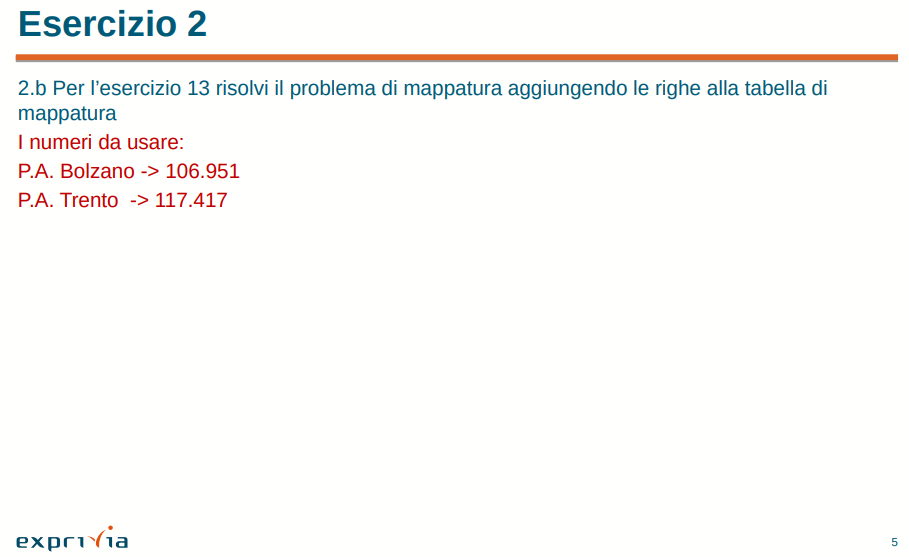
package it.academy.avanzati  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.{col, when}  
  
object Ava01a\_SerieA {  
  
 def main(args: Array[String]): Unit = {  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 spark.sparkContext.setLogLevel("ERROR")  
  
 val df\_json = spark.read  
 .option("multiline", "true")  
 .json("data/serie-a/serie-a-2021.json")  
  
 val df\_json\_remove = df\_json.drop("DateUtc", "Group", "Location", "MatchNumber", "RoundNumber")  
 //df\_json\_remove.printSchema()  
 //df\_json\_remove.show(false)  
  
 val df\_score = df\_json\_remove.  
 withColumn("HomePt",  
 when(col("HomeTeamScore") - col("AwayTeamScore") > 0, 3).  
 when(col("HomeTeamScore") - col("AwayTeamScore") < 0, 0).  
 otherwise(1)  
 ).  
 withColumn("AwayPt",  
 when(col("AwayTeamScore") - col("HomeTeamScore") > 0, 3).  
 when(col("AwayTeamScore") - col("HomeTeamScore") < 0, 0).  
 otherwise(1)  
 )  
  
 // df\_score.show  
  
 val df\_home = df\_score.select(  
 col("HomeTeam").as("Squadra"),  
 col("HomeTeamScore").as("Goal"),  
 col("HomePt").as("PT"))  
 val df\_away = df\_score.select(  
 col("AwayTeam").as("Squadra"),  
 col("AwayTeamScore").as("Goal"),  
 col("AwayPt").as("PT"))  
  
 val df\_classifica = df\_home.union(df\_away)  
 df\_classifica.show  
  
 val df\_finale = df\_classifica  
 .groupBy("Squadra")  
 .sum("PT")  
 .withColumnRenamed("sum(PT)", "PT")  
 .orderBy(col("PT").desc)  
  
 df\_finale.show  
  
 }  
}

**b):**

package it.academy.avanzati  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.\_  
  
object Ava01b\_SerieA {  
  
 def main(args: Array[String]): Unit = {  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 spark.sparkContext.setLogLevel("ERROR")  
  
 val df\_json = spark.read  
 .option("multiline", "true")  
 .json("data/serie-a/serie-a-2021.json")  
  
 val df\_json\_remove = df\_json.drop("DateUtc", "Group", "Location", "MatchNumber", "RoundNumber")  
 //df\_json\_remove.printSchema()  
 //df\_json\_remove.show(false)  
  
 val df\_score = df\_json\_remove.  
 withColumn("HomePt",  
 when(col("HomeTeamScore") - col("AwayTeamScore") > 0, 3).  
 when(col("HomeTeamScore") - col("AwayTeamScore") < 0, 0).  
 otherwise(1)  
 ).  
 withColumn("AwayPt",  
 when(col("AwayTeamScore") - col("HomeTeamScore") > 0, 3).  
 when(col("AwayTeamScore") - col("HomeTeamScore") < 0, 0).  
 otherwise(1)  
 )  
  
 //df\_score.show  
  
 val df\_home = df\_score.select(  
 col("HomeTeam").as("Squadra"),  
 col("HomeTeamScore").as("GF"),  
 col("AwayTeamScore").as("GS"),  
 col("HomePt").as("PT"))  
 val df\_away = df\_score.select(  
 col("AwayTeam").as("Squadra"),  
 col("AwayTeamScore").as("GF"),  
 col("HomeTeamScore").as("GS"),  
 col("AwayPt").as("PT"))  
  
 val df\_classifica = df\_home.union(df\_away)  
 .withColumn("V",  
 when(col("PT") === 3, 1)  
 .otherwise(0)  
 )  
 .withColumn("N",  
 when(col("PT") === 0, 1)  
 .otherwise(0)  
 )  
 .withColumn("P",  
 when(col("PT") === 1, 1)  
 .otherwise(0)  
 )  
 //df\_classifica.show  
  
 val df\_finale = df\_classifica  
 .groupBy("Squadra")  
 .agg(  
 sum("PT").as("PT"),  
 count("Squadra").as("PG"),  
 sum("V").as("V"),  
 sum("P").as("P"),  
 sum("N").as("N"),  
 sum("GF").as("GF"),  
 sum("GS").as("GS")  
 )  
 .orderBy(col("PT").desc)  
  
 df\_finale.show  
 }  
}

**Esercizio 2:**

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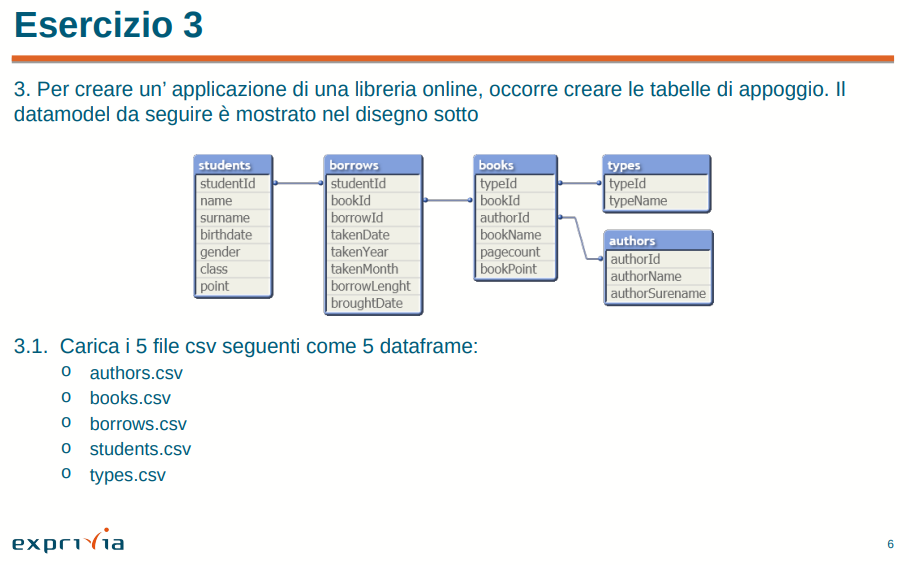
**a):**

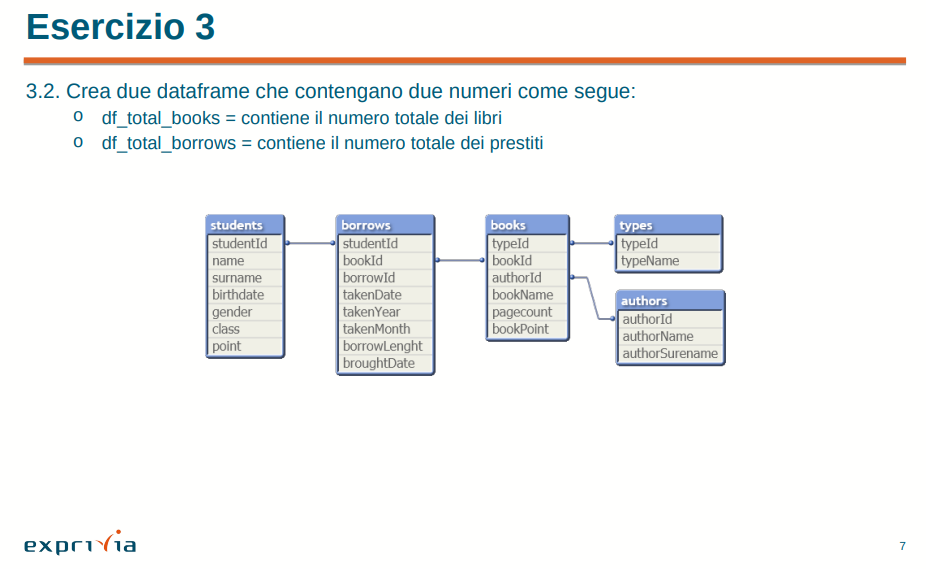
package it.academy.avanzati  
//Trentino-Alto Adige -> P.A. Bolzano  
//Trentino-Alto Adige -> P.A. Trento  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.col  
  
object Ava02a\_Geopolitica {  
  
 def main(args: Array[String]): Unit = {  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 spark.sparkContext.setLogLevel("ERROR")  
  
 val df\_covid = spark.read  
 .option("multiline", "true")  
 .json("data/covid/dpc-covid19-ita-province.json")  
  
 val df\_covid\_groupby1\_1 = df\_covid.groupBy("denominazione\_regione")  
 .sum("totale\_casi")  
 .orderBy(col("denominazione\_regione").asc)  
 df\_covid\_groupby1\_1.show  
  
 // val df\_covid\_groupby1\_2 = df\_covid.groupBy("denominazione\_regione")  
 // .sum("totale\_casi")  
 // .orderBy(col("sum(totale\_casi)").desc)  
 // df\_covid\_groupby1\_2.show  
  
 // val df\_covid\_groupby2\_1 = df\_covid.groupBy("denominazione\_regione","denominazione\_provincia")  
 // .sum("totale\_casi")  
 // .orderBy(col("denominazione\_regione").asc,col("denominazione\_provincia").asc)  
 // df\_covid\_groupby2\_1.show  
 //  
 // val df\_covid\_groupby2\_2 = df\_covid.groupBy("denominazione\_regione", "denominazione\_provincia")  
 // .sum("totale\_casi")  
 // .orderBy(col("sum(totale\_casi)").desc)  
 // df\_covid\_groupby2\_2.show  
  
 val df\_regioni\_pop = spark.read  
 .option("header", "true")  
 .option("delimiter", ";")  
 .csv("data/geopolitica/regioni\_italiane\_per\_popolazione\_mod.csv")  
  
 df\_regioni\_pop.show(100)  
  
 val df\_covid\_pop = df\_covid\_groupby1\_1.join(df\_regioni\_pop,  
 col("denominazione\_regione") === col("Regione"), "left")  
 .select(  
 col("denominazione\_regione"),  
 col("sum(totale\_casi)"),  
 col("Popolazione")  
 )  
 df\_covid\_pop.printSchema()  
 df\_covid\_pop.show(100)  
  
 }  
}

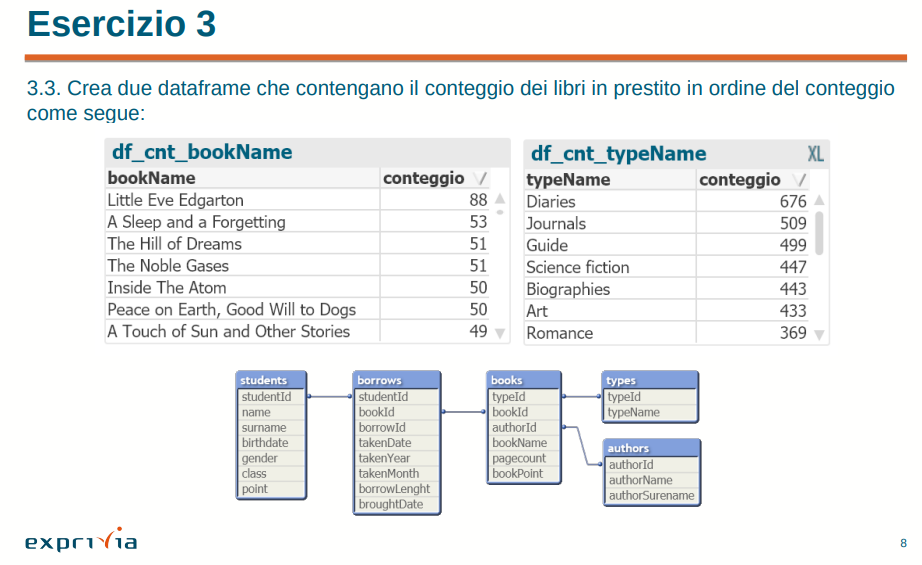
**b):**

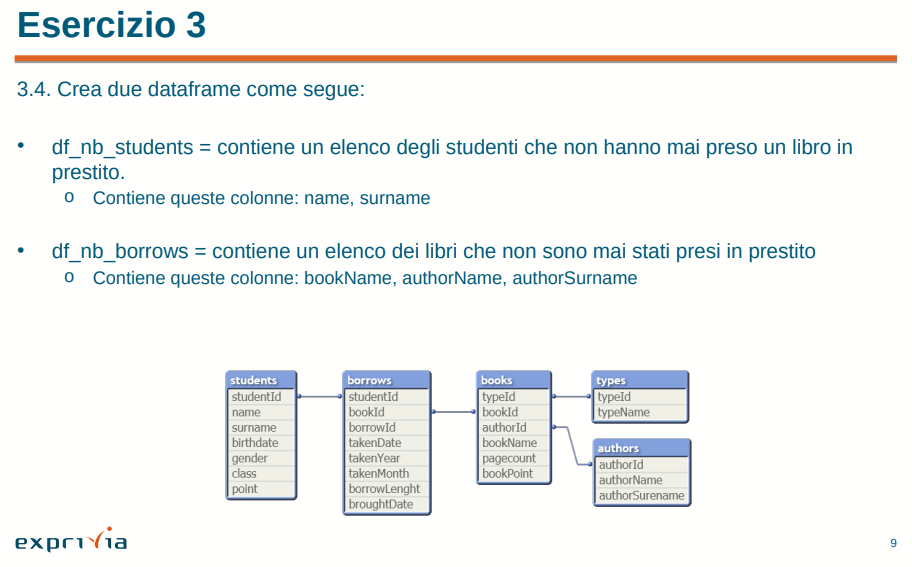
package it.academy.avanzati  
  
//Trentino-Alto Adige -> P.A. Bolzano  
//Trentino-Alto Adige -> P.A. Trento  
//P.A. Bolzano -> 106.951  
//P.A. Trento -> 117.417  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.col  
  
object Ava02b\_Geopolitica {  
  
 def main(args: Array[String]): Unit = {  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 spark.sparkContext.setLogLevel("ERROR")  
  
 import spark.implicits.\_  
  
 val df\_covid = spark.read  
 .option("multiline", "true")  
 .json("data/covid/dpc-covid19-ita-province.json")  
  
 // df\_covid.show  
  
 val df\_covid\_groupby1\_1 = df\_covid.groupBy("denominazione\_regione")  
 .sum("totale\_casi")  
 .orderBy(col("denominazione\_regione").asc)  
 df\_covid\_groupby1\_1.show  
  
 // val df\_covid\_groupby1\_2 = df\_covid.groupBy("denominazione\_regione")  
 // .sum("totale\_casi")  
 // .orderBy(col("sum(totale\_casi)").desc)  
 // df\_covid\_groupby1\_2.show  
  
 // val df\_covid\_groupby2\_1 = df\_covid.groupBy("denominazione\_regione","denominazione\_provincia")  
 // .sum("totale\_casi")  
 // .orderBy(col("denominazione\_regione").asc,col("denominazione\_provincia").asc)  
 // df\_covid\_groupby2\_1.show  
 //  
 // val df\_covid\_groupby2\_2 = df\_covid.groupBy("denominazione\_regione", "denominazione\_provincia")  
 // .sum("totale\_casi")  
 // .orderBy(col("sum(totale\_casi)").desc)  
 // df\_covid\_groupby2\_2.show  
  
 val df\_regioni\_pop\_part1 = spark.read  
 .option("header", "true")  
 .option("delimiter", ";")  
 .csv("data/geopolitica/regioni\_italiane\_per\_popolazione.csv")  
  
  
 val data = Array(  
 ("P.A. Bolzano", "106951", "", "", "", ""),  
 ("P.A. Trento", "117417", "", "", "", "")  
 )  
  
 val rdd = spark.sparkContext.parallelize(data)  
  
 val columns = Array("Regione", "Popolazione", "Superficie", "Densità", "Numero Comuni", "Numero Province")  
  
 val df\_regioni\_pop\_part2 = rdd.toDF(columns: \_\*)  
  
 val df\_regioni\_pop = df\_regioni\_pop\_part1.union(df\_regioni\_pop\_part2)  
  
 df\_regioni\_pop.show(100)  
  
  
 val df\_covid\_pop = df\_covid\_groupby1\_1.join(df\_regioni\_pop,  
 col("denominazione\_regione") === col("Regione"), "left")  
 .select(  
 col("denominazione\_regione"),  
 col("sum(totale\_casi)"),  
 col("Popolazione")  
 )  
 df\_covid\_pop.printSchema()  
 df\_covid\_pop.show(100)  
 }  
}

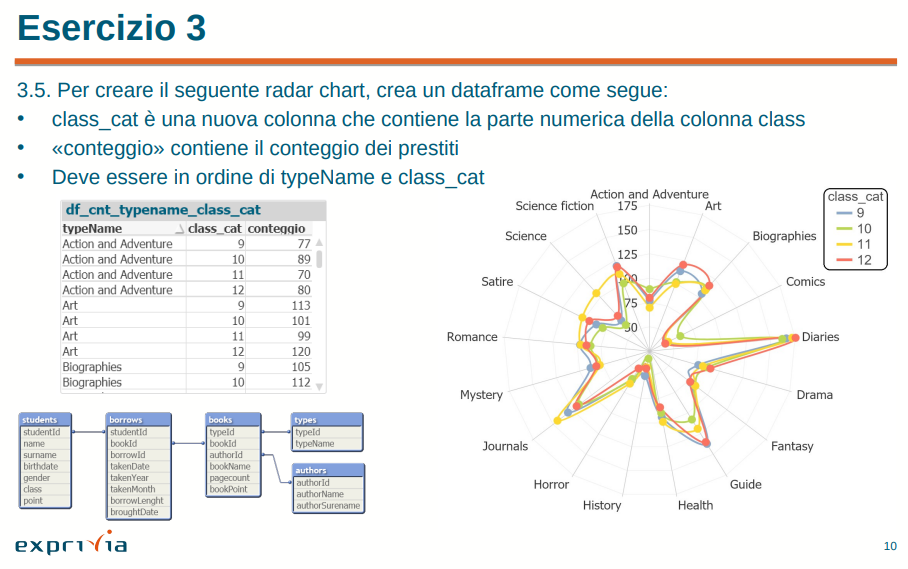
**Esercizio 3:**

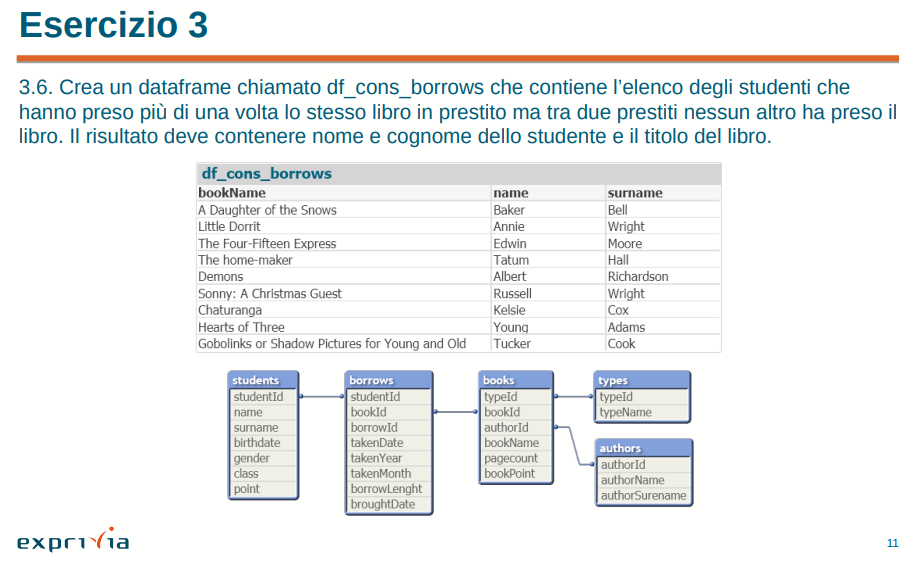
****

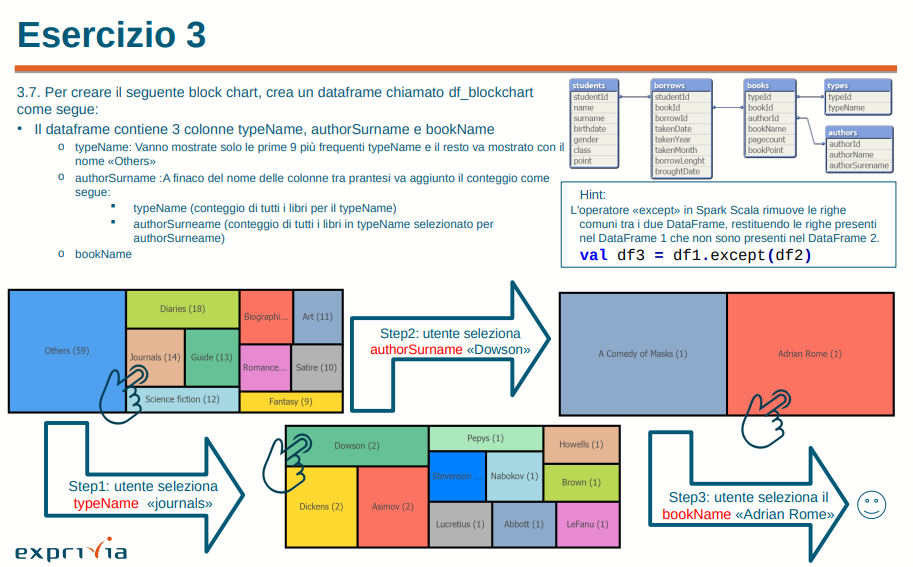
****

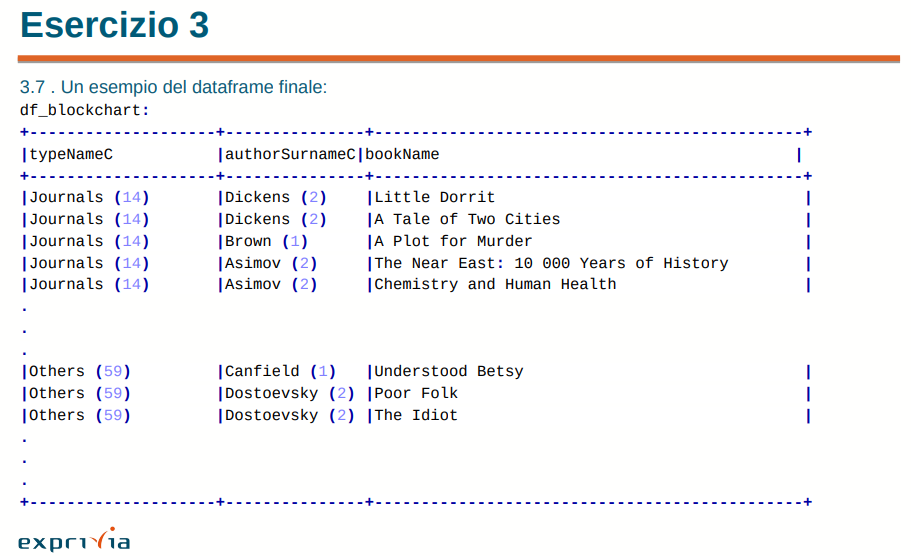
****

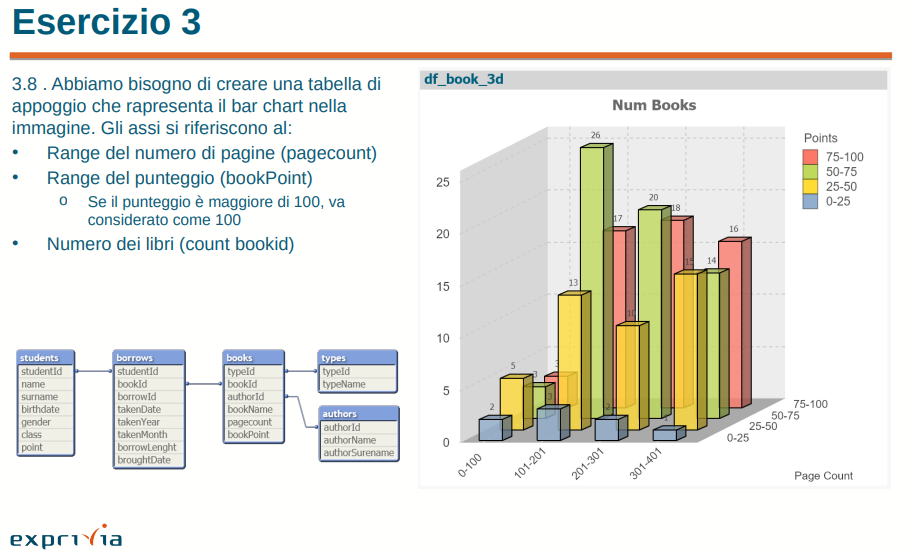
****

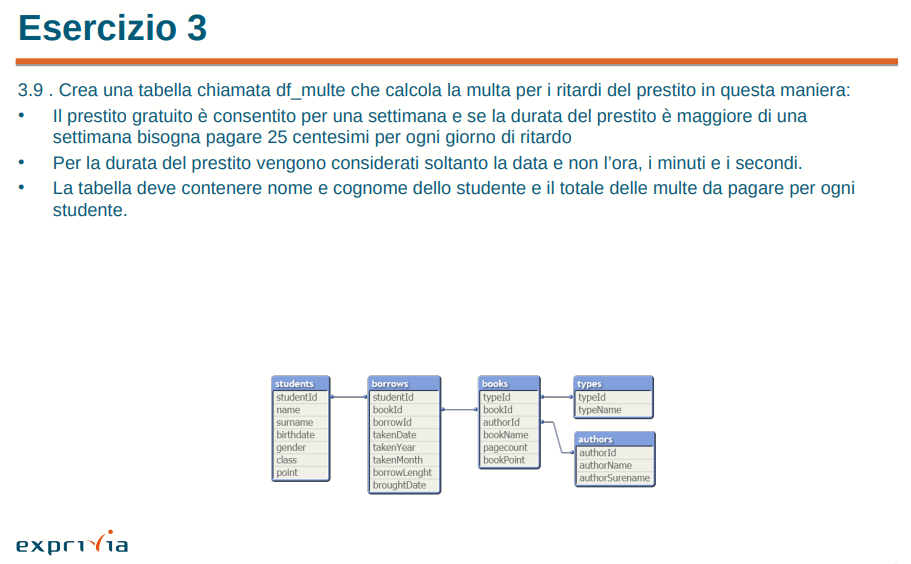
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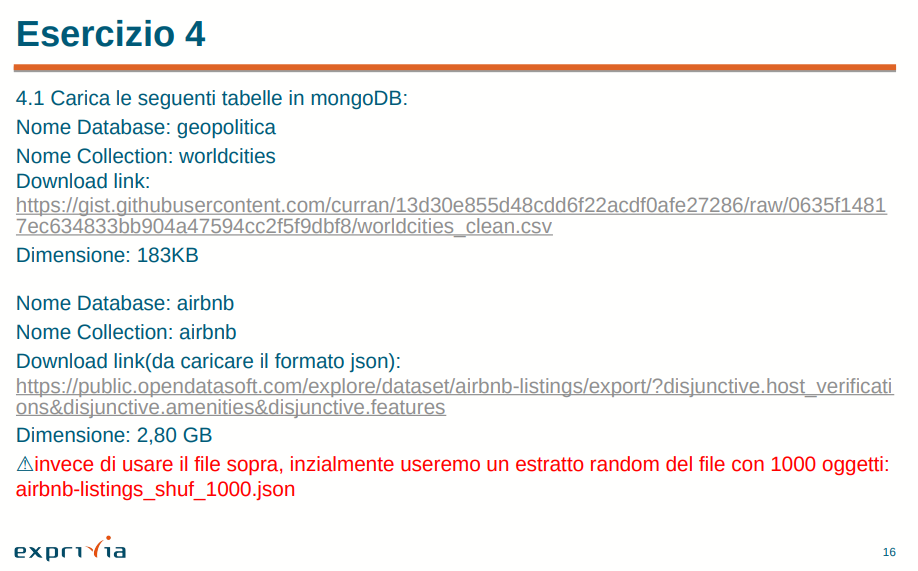
**a):**

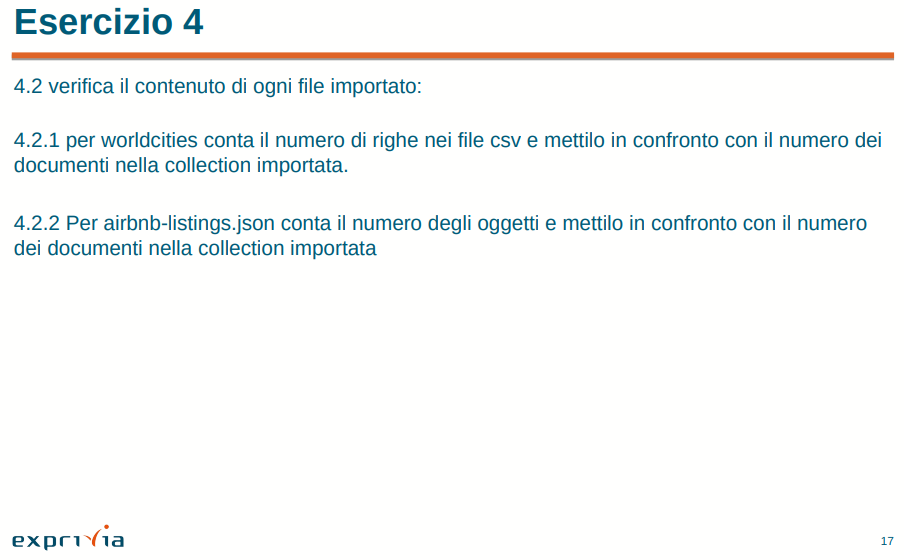
package it.academy.avanzati  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.\_  
import org.apache.log4j.{Level, Logger}  
import org.apache.spark.sql.SparkSession  
  
object Ava03a\_Libreria {  
 def main(args: Array[String]): Unit = {  
  
 Logger.getLogger("org").setLevel(Level.ERROR)  
 Logger.getLogger("akka").setLevel(Level.ERROR)  
  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 spark.sparkContext.setLogLevel("ERROR")  
  
 // 3.1  
 val df\_authors = spark.read.option("header", "true").csv("data/Libreria/authors.csv")  
 val df\_books = spark.read.option("header", "true").csv("data/Libreria/books.csv")  
 val df\_borrows = spark.read.option("header", "true").csv("data/Libreria/borrows.csv")  
 val df\_students = spark.read.option("header", "true").csv("data/Libreria/students.csv")  
 val df\_types = spark.read.option("header", "true").csv("data/Libreria/types.csv")  
  
 println("Authors:");  
 df\_authors.show(false)  
 println("Books:");  
 df\_books.show(false)  
 println("Borrows:");  
 df\_borrows.show(false);  
 df\_borrows.printSchema()  
 println("Students:");  
 df\_students.show(false)  
 println("Types:");  
 df\_types.show(false)  
  
 // 3.2  
 df\_authors.createOrReplaceTempView("authors")  
 df\_books.createOrReplaceTempView("books")  
 df\_borrows.createOrReplaceTempView("borrows")  
 df\_students.createOrReplaceTempView("students")  
 df\_types.createOrReplaceTempView("types")  
  
 val df\_total\_books = spark.sql(  
 """  
 select count(bookId) from books  
 """)  
// println("df\_total\_books:");  
// df\_total\_books.show(false)  
  
// val df\_total\_books2 = df\_books.count()  
// println("df\_total\_books2:" + df\_total\_books2);  
  
 val df\_total\_books3 = df\_books.groupBy().count()  
// println("df\_total\_books3:");  
// df\_total\_books3.show  
  
 val df\_total\_borrows = spark.sql(  
 """  
 select count(borrowId) from borrows  
 """)  
// println("df\_total\_borrows:");  
// df\_total\_borrows.show(false)  
  
 val df\_cnt\_book\_name1 = spark.sql(  
 """  
 select bookName, count(borrowId) as conteggio  
 from borrows  
 left join books  
 on books.bookId=borrows.bookId  
 group by bookName  
 order by conteggio desc  
 """)  
 df\_cnt\_book\_name1.show  
  
 val df\_cnt\_book\_name2 = df\_borrows.join(df\_books,Seq("bookId"),"left")  
 .groupBy("bookName")  
 .agg(count("borrowId").as("conteggio"))  
 .orderBy(desc("conteggio"))  
 df\_cnt\_book\_name2.show  
  
 val df\_cnt\_typeName1 = spark.sql(  
 """  
 select typeName, count(borrowId) as conteggio  
 from borrows  
 left join books  
 on books.bookId=borrows.bookId  
 left join types  
 on books.typeId=types.typeId  
 group by typeName  
 order by conteggio desc  
 """)  
 df\_cnt\_typeName1.show  
  
 val df\_cnt\_typeName2 = df\_borrows  
 .join(df\_books, Seq("bookId"), "left")  
 .join(df\_types, Seq("typeId"), "left")  
 .groupBy("typeName")  
 .agg(count("borrowId").as("conteggio"))  
 .orderBy(desc("conteggio"))  
 df\_cnt\_typeName2.show  
  
 val df\_nb\_students = df\_borrows  
 .join(df\_students, Seq("studentId"), "full")  
 .filter(col("borrowId").isNull)  
 .select("name","surname")  
  
 df\_nb\_students.show  
  
 val df\_nb\_students2 = df\_borrows  
 .join(df\_students, Seq("studentId"), "full")  
 .groupBy("name","surname")  
 .agg(count("borrowId").as("conteggio"))  
 .filter(col("conteggio")===0)  
 .select("name","surname")  
  
 df\_nb\_students2.show  
  
 val df\_nb\_students3 = df\_borrows  
 .join(df\_students, Seq("studentId"), "full")  
 .groupBy("name", "surname")  
 .agg(count("borrowId").as("conteggio"))  
 .filter(col("conteggio") === 0)  
 .select("name", "surname")  
  
 df\_nb\_students2.show  
  
  
  
  
 // 3.3  
 val df\_cnt\_bookname = spark.sql(  
 """  
 select bookName, count(borrowId) as conteggio  
 from borrows br  
 join books bk  
 on br.bookId = bk.bookId  
 group by bookName  
 order by conteggio desc  
 """)  
 println("df\_cnt\_bookname:");  
 df\_cnt\_bookname.show(false)  
 val df\_cnt\_typename = spark.sql(  
 """  
 select typeName, count(borrowId) as conteggio  
 from borrows br  
 join books bk  
 on br.bookId = bk.bookId  
 join types ty  
 on ty.typeId = bk.typeId  
 group by typeName  
 order by conteggio desc  
 """)  
 println("df\_cnt\_typename:");  
 df\_cnt\_typename.show(false)  
  
 // 3.4  
 val df\_nb\_students\_ = spark.sql(  
 """  
 select name,surname, count(borrowId) as conteggio  
 from borrows br  
 full join students st  
 on br.studentId = st.studentId  
 group by name,surname  
 having conteggio=0  
 """)  
 .drop("conteggio")  
 println("df\_nb\_students:");  
 df\_nb\_students\_.show(false)  
  
 val df\_nb\_borrows = spark.sql(  
 """  
 select bookName,authorName,authorSurname, count(borrowId) as conteggio  
 from borrows br  
 full join books bk  
 on br.bookId = bk.bookId  
 join authors au  
 on au.authorId = bk.authorId  
 group by bookName,authorName,authorSurname  
 having conteggio=0  
 """)  
 .drop("conteggio")  
 println("df\_nb\_borrows:");  
 df\_nb\_borrows.show(false)  
  
 // 3.5  
 val df\_cnt\_typename\_class\_cat = spark.sql(  
 """  
 select q.typeName, cast(q.class\_cat as int), count(borrowId) as conteggio  
 from  
 (select typeName,  
 if(left(class,1)=1,left(class,2),left(class,1)) as class\_cat,  
 borrowId  
 from types ty  
 join books bk  
 on ty.typeId = bk.typeId  
 join borrows br  
 on br.bookId = bk.bookId  
 join students st  
 on br.studentId = st.studentId) q  
 group by typeName, class\_cat  
 order by typeName, class\_cat  
 """)  
 println("df\_cnt\_typename\_class\_cat:");  
 df\_cnt\_typename\_class\_cat.show(false)  
  
 // 3.6  
 val df\_cons\_borrows\_step1 = spark.sql(  
 """  
 select br.bookId, bk.bookName, br.broughtDate, br.studentId, st.name, st.surname  
 , row\_number() OVER (PARTITION BY br.bookId ORDER BY br.bookId, broughtDate) AS row\_num  
 from books bk  
 join borrows br  
 on bk.bookId=br.bookId  
 join students st  
 on st.studentId=br.studentId  
 order by br.bookId,br.broughtDate  
 """)  
  
 println("df\_cons\_borrows\_step1:");  
 df\_cons\_borrows\_step1.show(false)  
  
 df\_cons\_borrows\_step1.createOrReplaceTempView("cons\_borrows\_step1")  
  
 val df\_cons\_borrows = spark.sql(  
 """  
 select a.bookName, a.name, a.surname  
 from cons\_borrows\_step1 a  
 join cons\_borrows\_step1 b  
 on a.bookId=b.bookId and  
 a.studentId=b.studentId and  
 a.row\_num+1 = b.row\_num  
 """)  
  
 println("df\_cons\_borrows:");  
 df\_cons\_borrows.show(false)  
  
  
 // 3.7  
 val df\_types\_group\_tmp = spark.sql(  
 """  
 select bk.typeId, count(bookId) as cnt\_types  
 from types ty  
 join books bk  
 on ty.typeId = bk.typeId  
 group by bk.typeId  
 order by cnt\_types desc  
 """)  
 println("df\_types\_group\_tmp:");  
 df\_types\_group\_tmp.show(false)  
  
 val df\_types\_group\_tmp\_part1 = df\_types\_group\_tmp.limit(9)  
 println("df\_types\_group\_tmp\_part1:");  
 df\_types\_group\_tmp\_part1.show(false)  
  
 val df\_types\_group\_tmp\_part2\_cnt = df\_types\_group\_tmp  
 .except(df\_types\_group\_tmp\_part1)  
 .groupBy().sum("cnt\_types")  
 .withColumnRenamed("sum(cnt\_types)", "cnt\_types")  
 // .withColumn("typeId",lit("Others"))  
 println("df\_types\_group\_tmp\_part2\_cnt:");  
 df\_types\_group\_tmp\_part2\_cnt.show(false)  
  
 val df\_types\_group\_tmp\_part2 = df\_types\_group\_tmp  
 .except(df\_types\_group\_tmp\_part1)  
 .select("typeId")  
 .join(df\_types\_group\_tmp\_part2\_cnt)  
 println("df\_types\_group\_tmp\_part2:");  
 df\_types\_group\_tmp\_part2.show(false)  
  
 val df\_types\_group = df\_types\_group\_tmp\_part1  
 .withColumn("typeId\_flagothers", lit(false))  
 .select("typeId", "cnt\_types", "typeId\_flagothers")  
 .union(df\_types\_group\_tmp\_part2  
 .withColumn("typeId\_flagothers", lit(true))  
 .select("typeId", "cnt\_types", "typeId\_flagothers")  
 )  
 println("df\_types\_group:");  
 df\_types\_group.show(false)  
  
  
 val df\_authors\_group = spark.sql(  
 """  
 select au.authorId , ty.typeId , count(bookId) as cnt\_authors  
 from authors au  
 join books bk  
 on au.authorId = bk.authorId  
 join types ty  
 on ty.typeId = bk.typeId  
 group by au.authorId, ty.typeId  
 order by cnt\_authors desc, ty.typeId  
 """)  
 println("df\_authors\_group:");  
 df\_authors\_group.show(truncate = false, numRows = 999)  
  
 df\_types\_group.createOrReplaceTempView("types\_group")  
 df\_authors\_group.createOrReplaceTempView("authors\_group")  
  
 val df\_blockchart = spark.sql(  
 """  
 select  
 CONCAT(if(typeId\_flagothers=false,typeName,"Others")," (",cnt\_types,")") as typeNameC,  
 CONCAT(authorSurname," (",cnt\_authors,")") as authorSurnameC,  
 bookName  
 from types\_group tyg  
 join types ty  
 on ty.typeId = tyg.typeId  
 join books bk  
 on bk.typeId = tyg.typeId  
 join authors au  
 on au.authorId = bk.authorId  
 join authors\_group aug  
 on aug.authorId = au.authorId and aug.typeId=bk.typeId  
 """)  
  
 println("df\_blockchart:");  
 df\_blockchart.show(numRows = 999, truncate = false)  
  
 //3.8  
 val df\_book\_3d = spark.sql(  
 """  
 SELECT  
 CASE  
 WHEN pagecount <= 100 THEN '0-100'  
 WHEN pagecount <= 200 THEN '101-201'  
 WHEN pagecount <= 300 THEN '201-301'  
 WHEN pagecount <= 400 THEN '301-401'  
 ELSE '400>'  
 END AS pagecount\_group,  
 CASE  
 WHEN bookPoint <= 25 THEN '0-25'  
 WHEN bookPoint <= 50 THEN '25-50'  
 WHEN bookPoint <= 75 THEN '50-75'  
 ELSE '75-100'  
 END AS bookpoint\_group,  
 COUNT(bookId) AS bookId\_count  
 FROM  
 books  
 GROUP BY  
 pagecount\_group,  
 bookpoint\_group  
 """)  
 println("df\_book\_3d:");  
 df\_book\_3d.show()  
  
 //3.9  
 df\_borrows.createOrReplaceTempView("borrows")  
  
 val df\_borrows\_mod = spark.sql("""  
 SELECT  
 borrowId,  
 studentId,  
 bookId,  
 to\_date(takenDate, 'yyyy-MM-dd HH:mm:SS') AS takenDateOK,  
 to\_date(broughtDate, 'yyyy-MM-dd HH:mm:SS') AS broughtDateOK,  
 datediff(to\_date(broughtDate, 'yyyy-MM-dd HH:mm:SS'), to\_date(takenDate, 'yyyy-MM-dd HH:mm:SS')) AS datesDiff,  
 CASE WHEN datediff(to\_date(broughtDate, 'yyyy-MM-dd HH:mm:SS'), to\_date(takenDate, 'yyyy-MM-dd HH:mm:SS')) <= 7 THEN 0  
 ELSE datediff(to\_date(broughtDate, 'yyyy-MM-dd HH:mm:SS'), to\_date(takenDate, 'yyyy-MM-dd HH:mm:SS')) \* 0.25  
 END AS multa  
 FROM  
 borrows  
""")  
  
 df\_borrows\_mod.printSchema()  
 println("df\_borrows\_mod:");  
 df\_borrows\_mod.show();  
 df\_borrows\_mod.printSchema()  
 df\_borrows\_mod.createOrReplaceTempView("borrows\_mod")  
  
 val df\_multe = spark.sql(  
 """  
 select studentId,name,surname, sum(multa)  
 from  
 (select st.\*,brm.multa  
 from  
 borrows\_mod brm  
 join students st  
 on brm.studentId = st.studentId) q  
 group by studentId,name,surname  
 """)  
  
 df\_multe.show  
  
 }  
}

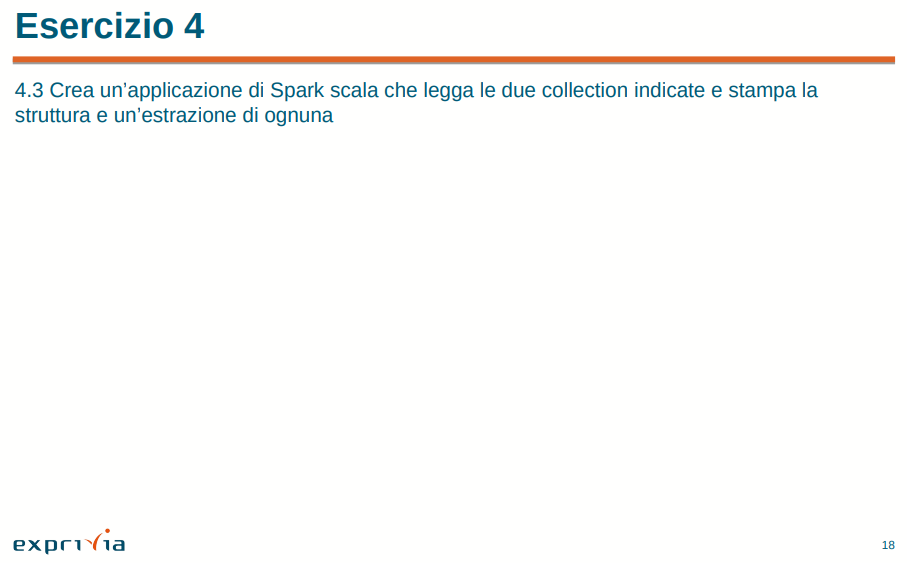
**b):**

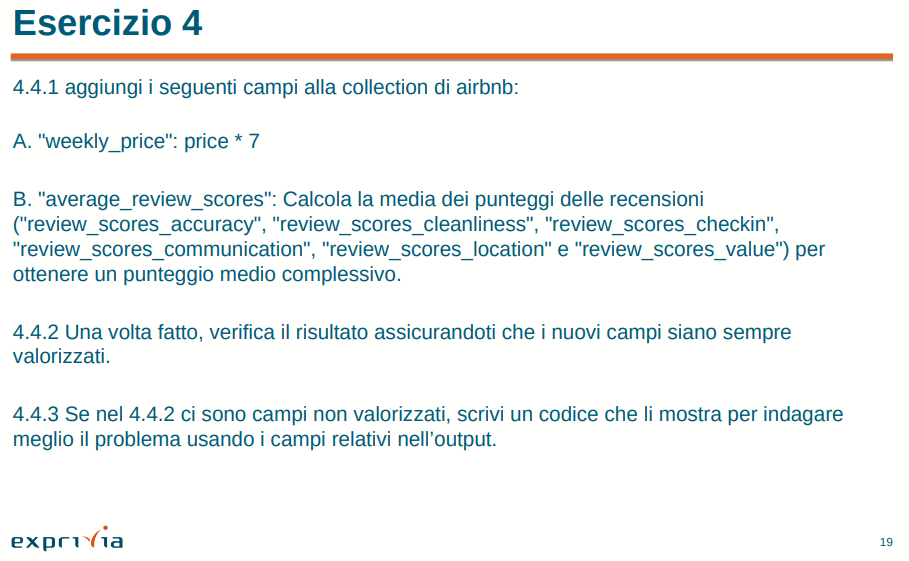
package it.academy.avanzati  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.expressions.Window  
import org.apache.spark.sql.functions.\_  
  
object Ava03b\_Libreria {  
 def main(args: Array[String]): Unit = {  
  
 val spark = SparkSession.builder()  
 .master("local[\*]")  
 .getOrCreate();  
  
 spark.sparkContext.setLogLevel("ERROR")  
  
 import spark.implicits.\_  
  
 // 3.a  
 val df\_authors = spark.read.option("header", "true").csv("data/Libreria/authors.csv")  
 val df\_books = spark.read.option("header", "true").csv("data/Libreria/books.csv")  
 val df\_borrows = spark.read.option("header", "true").csv("data/Libreria/borrows.csv")  
 val df\_students = spark.read.option("header", "true").csv("data/Libreria/students.csv")  
 val df\_types = spark.read.option("header", "true").csv("data/Libreria/types.csv")  
  
 println("Authors:");  
 df\_authors.show(false)  
 println("Books:");  
 df\_books.show(false)  
 println("Borrows:");  
 df\_borrows.show(false);  
 df\_borrows.printSchema()  
 println("Students:");  
 df\_students.show(false)  
 println("Types:");  
 df\_types.show(false)  
  
 // 3.b  
 val df\_total\_books = Seq(df\_books.count()).toDF()  
 println("df\_total\_books:")  
 df\_total\_books.show(false)  
 val df\_total\_borrows = Seq(df\_borrows.count()).toDF()  
 println("df\_total\_borrows:")  
 df\_total\_borrows.show(false)  
  
 // 3.c  
 val df\_cnt\_bookname = df\_borrows  
 .join(df\_books, df\_borrows("bookId") === df\_books("bookId"))  
 .groupBy("bookName")  
 .agg(count("borrowId").alias("conteggio"))  
 .orderBy(desc("conteggio"))  
 println("df\_cnt\_bookname:")  
 df\_cnt\_bookname.show(false)  
  
 val df\_cnt\_typename = df\_borrows  
 .join(df\_books, df\_borrows("bookId") === df\_books("bookId"))  
 .join(df\_types, df\_books("typeId") === df\_types("typeId"))  
 .groupBy("typeName")  
 .agg(count("borrowId").alias("conteggio"))  
 .orderBy(desc("conteggio"))  
 println("df\_cnt\_typename:")  
 df\_cnt\_typename.show(false)  
  
 // 3.d  
 val df\_nb\_students = df\_borrows  
 .join(df\_students, df\_borrows("studentId") === df\_students("studentId"), "full")  
 .groupBy("name", "surname")  
 .agg(count("borrowId").alias("conteggio"))  
 .filter("conteggio = 0")  
 .drop("conteggio")  
 println("df\_nb\_students:")  
 df\_nb\_students.show(false)  
  
 val df\_nb\_borrows = df\_borrows  
 .join(df\_books, df\_borrows("bookId") === df\_books("bookId"),"full")  
 .join(df\_authors, df\_books("authorId") === df\_authors("authorId"),"inner")  
 .groupBy("bookName", "authorName", "authorSurname")  
 .agg(count("borrowId").alias("conteggio"))  
 .filter("conteggio = 0")  
  
 println("df\_nb\_borrows:")  
 df\_nb\_borrows.show  
  
 // 3.e  
 val df\_cnt\_typename\_class\_cat = df\_types  
 .join(df\_books, df\_types("typeId") === df\_books("typeId"))  
 .join(df\_borrows, df\_books("bookId") === df\_borrows("bookId"))  
 .join(df\_students, df\_borrows("studentId") === df\_students("studentId"))  
 .selectExpr("typeName", "IF(LEFT(class, 1) = 1, LEFT(class, 2), LEFT(class, 1)) AS class\_cat", "borrowId")  
 .groupBy("typeName", "class\_cat")  
 .agg(count("borrowId").alias("conteggio"))  
 .orderBy("typeName", "class\_cat")  
  
 println("df\_cnt\_typename\_class\_cat:")  
 df\_cnt\_typename\_class\_cat.show(false)  
  
 // 3.f  
 val windowSpec = Window.partitionBy(df\_books("bookId")).orderBy(df\_borrows("broughtDate"))  
  
 val df\_cons\_borrows\_step1 = df\_books  
 .join(df\_borrows, df\_books("bookId") === df\_borrows("bookId"))  
 .join(df\_students, df\_students("studentId") === df\_borrows("studentId"))  
 .select(df\_books("bookId"), df\_books("bookName"), df\_borrows("broughtDate"),  
 df\_students("studentId"), df\_students("name"), df\_students("surname"),  
 row\_number().over(windowSpec).alias("row\_num"))  
 .orderBy(df\_books("bookId"), df\_borrows("broughtDate"))  
  
 println("df\_cons\_borrows\_step1:")  
 df\_cons\_borrows\_step1.show(false)  
  
 val df\_cons\_borrows = df\_cons\_borrows\_step1.as("a")  
 .join(df\_cons\_borrows\_step1.as("b"), $"a.bookId" === $"b.bookId" && $"a.studentId" === $"b.studentId" && $"a.row\_num" + 1 === $"b.row\_num")  
 .select($"a.bookName", $"a.name", $"a.surname")  
  
 println("df\_cons\_borrows:")  
 df\_cons\_borrows.show(false)  
  
 // 3.g  
 val df\_types\_group\_tmp = df\_types.join(df\_books, "typeId")  
 .groupBy("typeId")  
 .agg(count("bookId").alias("cnt\_types"))  
 .orderBy(desc("cnt\_types"))  
  
 println("df\_types\_group\_tmp:")  
 df\_types\_group\_tmp.show(false)  
  
 val df\_types\_group\_tmp\_part1 = df\_types\_group\_tmp.limit(9)  
 println("df\_types\_group\_tmp\_part1:")  
 df\_types\_group\_tmp\_part1.show(false)  
  
 val df\_types\_group\_tmp\_part2\_cnt = df\_types\_group\_tmp  
 .except(df\_types\_group\_tmp\_part1)  
 .groupBy()  
 .agg(sum("cnt\_types").alias("cnt\_types"))  
 // .withColumn("typeId", lit("Others"))  
  
 println("df\_types\_group\_tmp\_part2\_cnt:")  
 df\_types\_group\_tmp\_part2\_cnt.show(false)  
  
 val df\_types\_group\_tmp\_part2 = df\_types\_group\_tmp  
 .except(df\_types\_group\_tmp\_part1)  
 .select("typeId")  
 .join(df\_types\_group\_tmp\_part2\_cnt)  
  
 println("df\_types\_group\_tmp\_part2:")  
 df\_types\_group\_tmp\_part2.show(false)  
  
 val df\_types\_group = df\_types\_group\_tmp\_part1  
 .withColumn("typeId\_flagothers", lit(false))  
 .select("typeId", "cnt\_types", "typeId\_flagothers")  
 .union(df\_types\_group\_tmp\_part2  
 .withColumn("typeId\_flagothers", lit(true))  
 .select("typeId", "cnt\_types", "typeId\_flagothers")  
 )  
  
 println("df\_types\_group:")  
 df\_types\_group.show(false)  
  
 val df\_authors\_group = df\_authors  
 .join(df\_books, df\_authors("authorId") === df\_books("authorId"))  
 .join(df\_types, df\_types("typeId") === df\_books("typeId"))  
 .groupBy(df\_authors("authorId"), df\_types("typeId"))  
 .agg(count("bookId").alias("cnt\_authors"))  
 .orderBy(desc("cnt\_authors"), df\_types("typeId"))  
  
 println("df\_authors\_group:")  
 df\_authors\_group.show(truncate = false, numRows = 999)  
  
 val df\_blockchart = df\_types\_group  
 .join(df\_types, Seq("typeId"))  
 .join(df\_books, Seq("typeId"))  
 .join(df\_authors, Seq("authorId"))  
 .join(df\_authors\_group, Seq("authorId", "typeId"))  
 .withColumn("typeNameC",  
 concat(  
 when(!col("typeId\_flagothers"), col("typeName")).otherwise(lit("Others")),  
 lit(" ("),  
 col("cnt\_types"),  
 lit(")")  
 )  
 ).withColumn("authorSurnameC",  
 concat(  
 col("authorSurname"),  
 lit(" ("),  
 col("cnt\_authors"),  
 lit(")")  
 )  
 )  
 .select("typeNameC","authorSurnameC","bookName" )  
  
 println("df\_blockchart:")  
 df\_blockchart.show(numRows = 999, truncate = false)  
  
 // 3.g  
 val df\_book\_3d = df\_books  
 .select(  
 when(col("pagecount") <= 100, "0-100")  
 .when(col("pagecount") <= 200, "101-201")  
 .when(col("pagecount") <= 300, "201-301")  
 .when(col("pagecount") <= 400, "301-401")  
 .otherwise("400>") as "pagecount\_group",  
 when(col("bookPoint") <= 25, "0-25")  
 .when(col("bookPoint") <= 50, "25-50")  
 .when(col("bookPoint") <= 75, "50-75")  
 .otherwise("75-100") as "bookpoint\_group",  
 col("bookId") as "bookId"  
 )  
 .groupBy("pagecount\_group", "bookpoint\_group")  
 .agg(count("bookId") as "bookId\_count")  
  
 println("df\_book\_3d:")  
 df\_book\_3d.show()  
 // ta inja ok  
 //3.i  
 val df\_borrows\_mod = df\_borrows  
 .withColumn("takenDateOK", to\_date(col("takenDate"), "yyyy-MM-dd HH:mm:SS"))  
 .withColumn("broughtDateOK", to\_date(col("broughtDate"), "yyyy-MM-dd HH:mm:SS"))  
 .drop("takenDate")  
 .drop("broughtDate")  
 .withColumnRenamed("takenDateOK", "takenDate")  
 .withColumnRenamed("broughtDateOK", "broughtDate")  
 .withColumn("datesDiff", datediff(col("broughtDate"), col("takenDate")))  
 .withColumn("multa",  
 when(col("datesDiff") <= 7, 0)  
 .otherwise(col("datesDiff") \* 0.25))  
  
 df\_borrows\_mod.printSchema()  
 println("df\_borrows\_mod:");  
 df\_borrows\_mod.show();  
 df\_borrows\_mod.printSchema()  
 df\_borrows\_mod.createOrReplaceTempView("borrows\_mod")  
  
  
 val df\_multe = df\_borrows\_mod  
 .join(df\_students, Seq("studentId"))  
 .groupBy("studentId", "name", "surname")  
 .agg(sum("multa").as("sum\_multa"))  
  
 df\_multe.show  
 }  
}

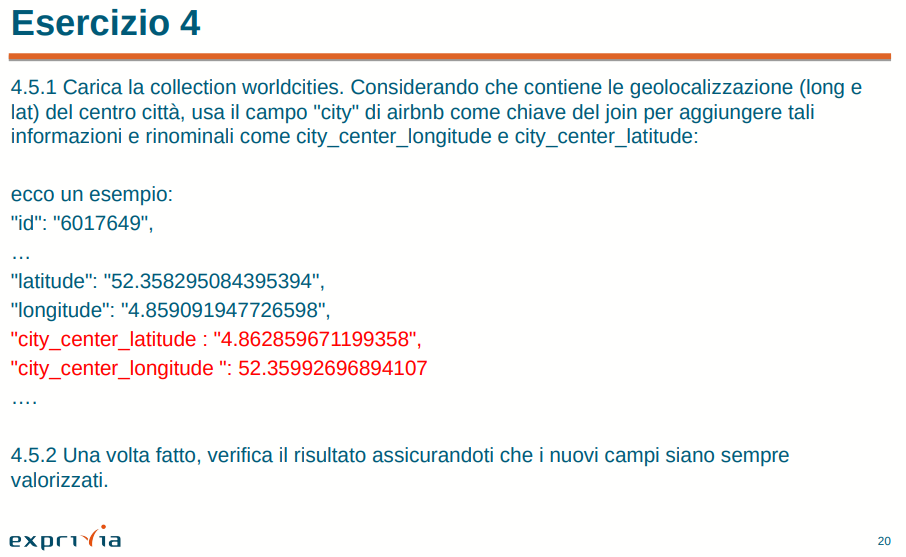
**Esercizio 4:**

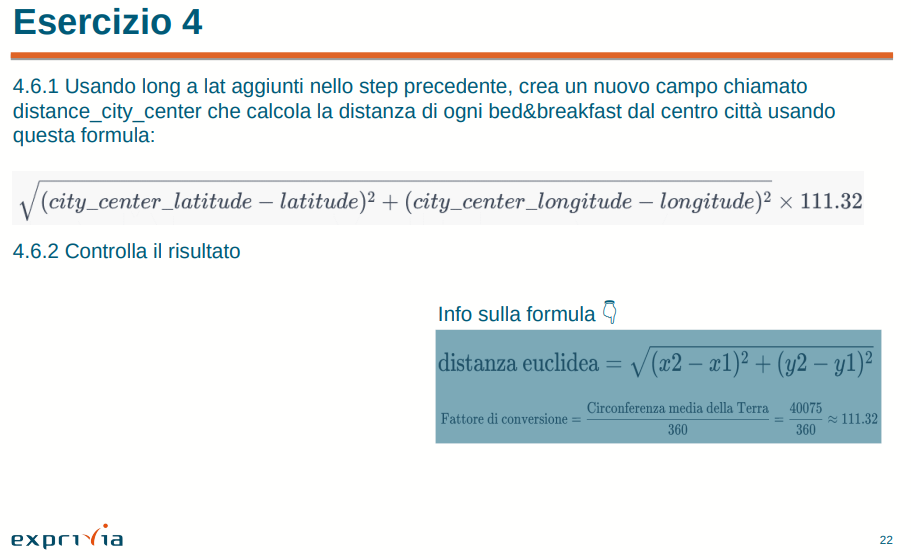
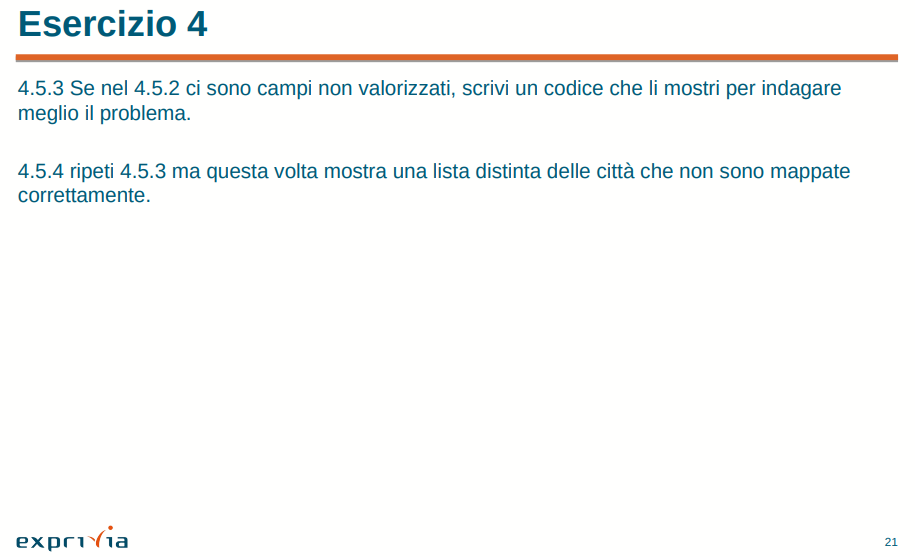
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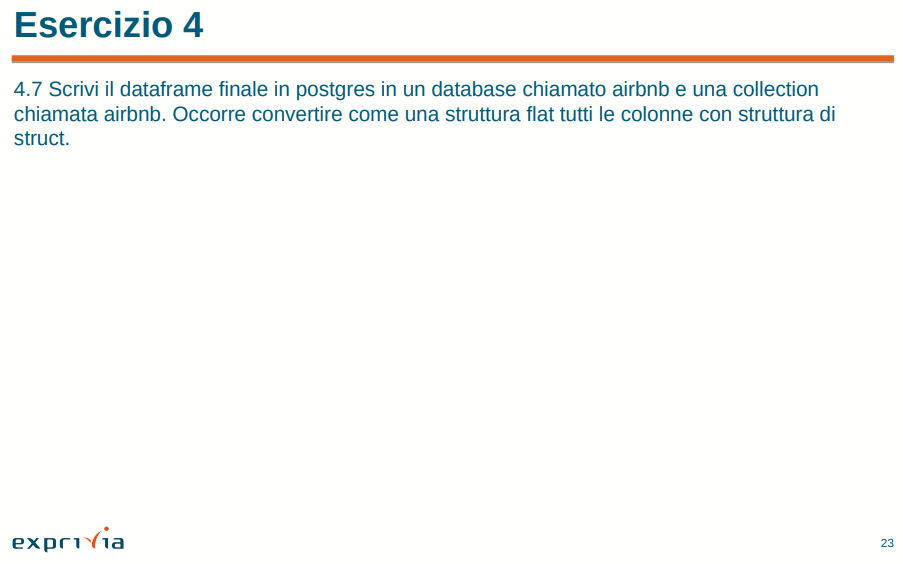
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package it.academy.avanzati  
  
import org.apache.spark.sql.SparkSession  
import org.apache.spark.sql.functions.\_  
import org.apache.log4j.{Level, Logger}  
  
object Ava04\_Airbnb {  
 def main(args: Array[String]): Unit = {  
  
 Logger.getLogger("org").setLevel(Level.ERROR)  
 Logger.getLogger("akka").setLevel(Level.ERROR)  
  
 val spark = SparkSession.builder()  
 .config("spark.mongodb.input.uri", "mongodb://localhost:27018/")  
 .config("spark.mongodb.output.uri", "mongodb://localhost:27018/")  
 .config("spark.master", "local")  
 .getOrCreate()  
  
 spark.sparkContext.setLogLevel("ERROR")  
  
 // 4.3  
 println("4.3")  
 val df\_airbnb = spark.read.format("mongo")  
 .option("database", "airbnb")  
 .option("collection", "airbnb\_1000")  
 .load()  
  
 df\_airbnb.printSchema()  
 df\_airbnb.show()  
  
 val df\_worldcities = spark.read.format("mongo")  
 .option("database", "geopolitica")  
 .option("collection", "worldcities")  
 .load()  
  
 df\_worldcities.printSchema()  
 df\_worldcities.show()  
  
 // 4.4  
 println("4.4.A")  
 val df\_airbnb\_2 = df\_airbnb.withColumn("weekly\_price",col("price")\*7)  
 df\_airbnb\_2.printSchema()  
 df\_airbnb\_2.show()  
  
 println("4.4.B")  
 val df\_airbnb\_3 = df\_airbnb\_2.withColumn("average\_review\_scores",  
 (col("review\_scores\_accuracy") +  
 col("review\_scores\_cleanliness") +  
 col("review\_scores\_checkin") +  
 col("review\_scores\_communication") +  
 col("review\_scores\_location") +  
 col("review\_scores\_value")) / 6  
 )  
  
 df\_airbnb\_3.printSchema()  
 df\_airbnb\_3.show()  
  
 println("4.4.2")  
  
 val weekly\_price\_null = df\_airbnb\_3.filter(col("weekly\_price").isNull).count()  
 println("weekly\_price null count: " + weekly\_price\_null)  
 val average\_review\_scores\_null = df\_airbnb\_3.filter(col("average\_review\_scores").isNull).count()  
 println("average\_review\_scores null count: " + average\_review\_scores\_null)  
  
 println("4.4.3")  
 println("weekly\_price null:")  
 df\_airbnb\_3.filter(col("weekly\_price").isNull)  
 .select("\_id","price","weekly\_price")  
 .show()  
 println("average\_review\_scores null:")  
 df\_airbnb\_3.filter(col("average\_review\_scores").isNull)  
 .select(col("\_id"),  
 col("review\_scores\_accuracy"),  
 col("review\_scores\_cleanliness"),  
 col("review\_scores\_checkin"),  
 col("review\_scores\_communication"),  
 col("review\_scores\_location"),  
 col("review\_scores\_value"))  
 .show()  
  
 println("4.5.1")  
 val df\_worldcities2=df\_worldcities.select("city", "lat" , "lng")  
 .withColumnRenamed("lat","city\_center\_latitude")  
 .withColumnRenamed("lng","city\_center\_longitude")  
 val df\_airbnb\_4 = df\_airbnb\_3.join(df\_worldcities2,Seq("city"), "left")  
 df\_airbnb\_4.printSchema()  
// df\_airbnb\_4.show()  
 df\_airbnb\_4  
 .select("\_id","city","latitude", "longitude","city\_center\_latitude" , "city\_center\_longitude")  
 .show()  
 println("4.5.2")  
 val city\_center\_null = df\_airbnb\_4  
 .filter(col("city\_center\_latitude").isNull || col("city\_center\_longitude").isNull)  
 .count()  
 println("city\_center null count: " + city\_center\_null)  
  
 println("4.5.3")  
 df\_airbnb\_4  
 .select("\_id","city","latitude", "longitude","city\_center\_latitude" , "city\_center\_longitude")  
 .filter(col("city\_center\_latitude").isNull || col("city\_center\_longitude").isNull)  
 .show  
  
 println("4.5.4")  
 df\_airbnb\_4  
 .select("city")  
 .filter(col("city\_center\_latitude").isNull || col("city\_center\_longitude").isNull)  
 .dropDuplicates()  
 .orderBy("city")  
 .show(999)  
  
 println("4.6.1")  
 val df\_airbnb\_5 = df\_airbnb\_4.withColumn("distance\_city\_center",  
 (sqrt(pow(df\_airbnb\_4("city\_center\_latitude") - df\_airbnb\_4("latitude"), 2) +  
 pow(df\_airbnb\_4("city\_center\_longitude") - df\_airbnb\_4("longitude"), 2))) \* 111.32)  
  
 df\_airbnb\_5.printSchema()  
 df\_airbnb\_5  
 .select("distance\_city\_center","city\_center\_latitude","latitude","city\_center\_longitude","longitude")  
 .show  
  
 4.7  
 df\_airbnb\_5.printSchema()  
  
 import org.apache.spark.sql.functions.\_  
  
 // Flatten all structs in the DataFrame  
 val df\_airbnb\_6 = df\_airbnb\_5.select(  
 col("city"),  
 col("\_id.oid").as("\_id"),  
 col("access"),  
 col("accommodates"),  
 col("amenities"),  
 col("availability\_30"),  
 col("availability\_365"),  
 col("availability\_60"),  
 col("availability\_90"),  
 col("bathrooms"),  
 col("bed\_type"),  
 col("bedrooms"),  
 col("beds"),  
 col("calculated\_host\_listings\_count"),  
 col("calendar\_last\_scraped"),  
 col("calendar\_updated"),  
 col("cancellation\_policy"),  
 col("cleaning\_fee"),  
 col("country"),  
 col("country\_code"),  
 col("description"),  
 col("experiences\_offered"),  
 col("extra\_people"),  
 col("features"),  
 col("first\_review"),  
 col("geolocation.lon").as("geolocation\_lon"),  
 col("geolocation.lat").as("geolocation\_lat"),  
 col("guests\_included"),  
 col("has\_availability"),  
 col("host\_about"),  
 col("host\_acceptance\_rate"),  
 col("host\_id"),  
 col("host\_listings\_count"),  
 col("host\_location"),  
 col("host\_name"),  
 col("host\_neighbourhood"),  
 col("host\_picture\_url"),  
 col("host\_response\_rate"),  
 col("host\_response\_time"),  
 col("host\_since"),  
 col("host\_thumbnail\_url"),  
 col("host\_total\_listings\_count"),  
 col("host\_url"),  
 col("host\_verifications"),  
 col("house\_rules"),  
 col("id"),  
 col("interaction"),  
 col("jurisdiction\_names"),  
 col("last\_review"),  
 col("last\_scraped"),  
 col("latitude"),  
 col("license"),  
 col("listing\_url"),  
 col("longitude"),  
 col("market"),  
 col("maximum\_nights"),  
 col("medium\_url"),  
 col("minimum\_nights"),  
 col("monthly\_price"),  
 col("name"),  
 col("neighborhood\_overview"),  
 col("neighbourhood"),  
 col("neighbourhood\_cleansed"),  
 col("neighbourhood\_group\_cleansed"),  
 col("notes"),  
 col("number\_of\_reviews"),  
 col("picture\_url.thumbnail").as("picture\_url\_thumbnail"),  
 col("picture\_url.filename").as("picture\_url\_filename"),  
 col("picture\_url.format").as("picture\_url\_format"),  
 col("picture\_url.width").as("picture\_url\_width"),  
 col("picture\_url.mimetype").as("picture\_url\_mimetype"),  
 col("picture\_url.etag").as("picture\_url\_etag"),  
 col("picture\_url.id").as("picture\_url\_id"),  
 col("picture\_url.last\_synchronized").as("picture\_url\_last\_synchronized"),  
 col("picture\_url.color\_summary").as("picture\_url\_color\_summary"),  
 col("picture\_url.height").as("picture\_url\_height"),  
 col("price"),  
 col("property\_type"),  
 col("review\_scores\_accuracy"),  
 col("review\_scores\_checkin"),  
 col("review\_scores\_cleanliness"),  
 col("review\_scores\_communication"),  
 col("review\_scores\_location"),  
 col("review\_scores\_rating"),  
 col("review\_scores\_value"),  
 col("reviews\_per\_month"),  
 col("room\_type"),  
 col("scrape\_id"),  
 col("security\_deposit"),  
 col("smart\_location"),  
 col("space"),  
 col("square\_feet"),  
 col("state"),  
 col("street"),  
 col("summary"),  
 col("thumbnail\_url"),  
 col("transit"),  
 col("weekly\_price"),  
 col("xl\_picture\_url"),  
 col("zipcode"),  
 col("average\_review\_scores"),  
 col("city\_center\_latitude"),  
 col("city\_center\_longitude"),  
 col("distance\_city\_center")  
 )  
  
  
 df\_airbnb\_6.write  
 .format("jdbc")  
 .option("url", "jdbc:postgresql://localhost:5432/mydatabase")  
 .option("dbtable", "airbnb")  
 .option("user", "myuser")  
 .option("password", "mypassword")  
 .mode("overwrite")  
 .save()  
 }  
}