

 Notebook\_w5

```
%scala  
val myfile = sc.textFile("dbfs:/FileStore/tables/hamlet.txt")  
val counts = myfile.flatMap(line => line.split(" ")).map(word => (word,1)).reduceByKey(_ + _)  
counts.saveAsTextFile("dbfs:/FileStore/tables/hamletwords")  
  
org.apache.hadoop.mapred.FileAlreadyExistsException: Output directory dbfs:/FileStore/tables/ham  
letwords already exists  
  
%fs ls dbfs:/FileStore/tables/hamletwords
```

path
dbfs:/FileStore/tables/hamletwords/_SUCCESS
dbfs:/FileStore/tables/hamletwords/part-00000
dbfs:/FileStore/tables/hamletwords/part-00001



```
val path="dbfs:/FileStore/tables/hamletwords"  
val data=sc.textFile(path)  
data.take(30)  
  
path: String = dbfs:/FileStore/tables/hamletwords  
data: org.apache.spark.rdd.RDD[String] = dbfs:/FileStore/tables/hamletwords MapPartitionsRDD[13] a  
t textFile at command-809125778853967:2  
res5: Array[String] = Array((weary,,1), (pate,4), (whereof,,1), (oppos'd,1), (rises.,1), (better.,  
1), (lug,1), (shot,5), (stuck,,1), (joy.,1), (spade!,1), (countrymen.,1), (order,2), (apprehension  
,2), (behind,3), (lenten,1), (Sprinkle,1), (been,25), (shoe?,1), (Father.,1), (Switzers?,1), (rots  
,1), (jade,1), (breath,5), (branches-it,1), (knows,2), (Horatio,,15), (Lamound.,1), (tune,2), (are  
,118))  
  
%scala  
val myfile = sc.textFile("dbfs:/FileStore/tables/macbeth.txt")  
  
myfile: org.apache.spark.rdd.RDD[String] = dbfs:/FileStore/tables/macbeth.txt MapPartitionsRDD[15]  
at textFile at command-809125778853968:1  
  
myfile.collect()
```

```
res10: Array[String] = Array(**The Project Gutenberg's Etext of Shakespeare's First Folio***, ***  
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FOR PUBLIC DOMAIN ET EXTS\*Ver.04.29.93\*END\*, "", "", "", "", Project Gutenberg's Etext of Shakespeare's The Tragedie of Macbeth, "", "", "", "", Executive Director's Notes:, "", In addition to the notes below, and so you will \*NOT\* think all, the spelling errors introduced by the printers of the time have, been corrected, here are the first few lines of Hamlet, as they, are presented herein:, "", " Bar nardo. Who's there?", " Fran. Nay answer me: Stand & vnfold", your selfe, "", " Bar. Long liue

the King", "", \*\*\*, "", As I understand it, the printers often ran out of certain words, or letters they had often packed into a "cliche". . .this is the, original meaning of the term cliche. . .and thus, being unwilling, to unpack the cliches, and thus you will see some substitutions, that look very odd. . .such as the exchanges of u for v, v for u,, above. . .and you may wonder why they did it this way, presuming, Shakespeare did not actually write the play in this manner. . . ., "", The answer is that they MAY have packed "lue" into a cliche at a, time when they were out of "v"'s . . .possibly having used "vv" in, place of some "w"'s, etc. This was a common practice of the day,, as print was still quite expensive, and they didn't want to spend, more on a wider selection of characters than they had to., "", You will find a lot of these kinds of "errors" in this text, as I, have mentioned in other times and places, many "scholars" have an, extreme attachment to these errors, and many have accorded them a, very high place in the "canon" of Shakespeare. My father read an, assortment of these made available to him by Cambridge University, in England for several months in a glass room constructed for the, purpose. To the best of my knowledge he read ALL those available, . . .in great detail. . .and determined from the various changes,, that Shakespeare most likely did not write in nearly as many of a, variety of errors we credit him for, even though he was in/famous, for signing his name with several different spellings., "", So, please take this into account when reading the comments below, made by our volunteer who prepared this file: you may see errors, that are "not" errors. . . ., "", So. . .with this caveat. . .we have NOT changed the canon errors,, here is the Project Gutenberg Etext of Shakespeare's The Tragedie, of Macbeth., "", Michael S. Hart, Project Gutenberg, Executive Director, "", "", \*\*\*, "", "", Scanner's Notes: What this is and isn't. This was taken from, a copy of Shakespeare's first folio and it is as close as I can, come in ASCII to the printed text., "", The elongated S's have been changed to small s's and the, conjoined ae have been changed to ae. I have left the spelling,, punctuation, capitalization as close as possible to the, printed text. I have corrected some spelling mistakes (I have put, together a spelling dictionary devised from the spellings of the, Geneva Bible and Shakespeare's First Folio and have unified, spellings according to this template), typo's and expanded, abbreviations as I have come across them. Everything within, brackets [] is what I have added. So if you don't like that, you can delete everything within the brackets if you want a, purer Shakespeare., "", Another thing that you should be aware of is that there are textual, differences between various copies of the first folio. So there may, be differences (other than what I have mentioned above) between, this and other first folio editions. This is due to the printer's, habit of setting the type and running off a number of copies and, then proofing the printed copy and correcting the type and then, continuing the printing run. The proof run wasn't thrown away but, incorporated into the printed copies. This is just the way it is., The text I have used was a composite of more than 30 different, First Folio editions' best pages., "", If you find any scanning errors, out and out typos, punctuation, errors, or if you disagree with my spelling choices please feel, free to email me those errors. I wish to make this the best, etext possible. My email address for right now are haradda@aol.com, and davidsr@inconnect.com. I hope that you enjoy this., "", David Reed, "", The Tragedie of Macbeth, "", Actus Primus. Scena Prima., "", Thunder and Lightning. Enter three Witches., "", " 1. When shall we three meet againe?", In Thunder, Lightning, or in Raine? , " 2. When the Hurley-burley's done,", When the Battaille's lost, and wonne, "", " 3. That will be ere the set of Sunne", "", " 1. Where the place?", " 2. Vpon the Heath", "", " 3. There to meet with Macbeth", "", " 1. I come, Gray-Malkin", "", " All. Padock calls anon: faire is foul e, and foule is faire,", Houer through the fogge and filthie ayre., "", Exeunt., "", "", Scena Secunda., "", Alarum within. Enter King, Malcome, Donalbaine, Lenox, with, attendants, meeting a blee ding Captaine., "", " King. What bloody man is that? he can report,", As seemeth by his plight, of the Reuolt, The newest state, "", " Mal. This is the Serieant,", Who like a good and hardie So uldier fought, 'Gainst my Captiuitie: Haile braue friend;, Say to the King, the knowledge of the Broyle,, As thou didst leaue it, "", " Cap. Doubtfull it stood,", As two spent Swimmers, that doe cling together,, And choake their Art: The mercilesse Macdonwald, (Worthie to be a Rebell, for to that, The multiplying Villanies of Nature, Doe swarme vpon him) from the Westerne Isles, Of Kernes and Gallowgrosses is supply'd,, And Fortune on his damned Quarry smiling,, Shew'd like a Rebells Whore: but all's too weake:, For braue Macbeth (well hee deserues that Name), Disdayning Fortune, with his brandisht Steele,, Which smoak'd with bloody execution, (Like Valours Minion) caru'd out his passage,, Till hee fac'd the Slaue:, Which neu'r shooke hands, nor bad farewell to him,, Till he vnseam'd him from the Naue toth' Chops,, And fix'd his Head vpon our Battlements, "", " King. O valiant Cousin, worthy Gentleman", "", " Cap. As whence the Sunne 'gins his reflection,", Shipwr acking Stormes, and direfull Thunders:, So from that Spring, whence comfort seem'd to come, Disco

mfort swells: Marke King of Scotland, marke,, No sooner Iustice had, with Valour arm'd,, Compell'd these skipping Kernes to trust their heeles,, But the Norwegian Lord, surveying vantage,, With furb usht Armes, and new supplyes of men,, Began a fresh assault, "", " King. Dismay'd not this our C aptaines, Macbeth and", Banquoh?, " Cap. Yes, as Sparrowes, Eagles;", Or the Hare, the Lyon:, If I say sooth, I must report they were, As Cannons ouer-charg'd with double Cracks,, So they doubly redoubled stroakes vpon the Foe:, Except they meant to bathe in reeking Wounds,, Or memorize another Golgotha,, I cannot tell: but I am faint,, My Gashes cry for helpe, "", " King. So well thy w ords become thee, as thy wounds,", They smack of Honor both: Goe get him Surgeons., Enter Rosse an d Angus., "", Who comes here?, " Mal. The worthy Thane of Rosse", "", " Lenox. What a haste looke through his eyes?", So should he looke, that seemes to speake things strange, "", " Rosse. God sauе the King", "", " King. Whence cam'st thou, worthy Thane?", " Rosse. From Fiffe, great King,", Where the Norwegian Banners flowt the Skie,, And fanne our people cold., Norway himselfe, wi th terrible numbers,, Assisted by that most disloyall Traytor,, The Thane of Cawdor, began a disma ll Conflict,, Till that Bellona's Bridgroome, lapt in prooфе,, Confronted him with selfe-comparis ons,, Point against Point, rebellious Arme 'gainst Arme,, Curbing his lauish spirit: and to conclu de,, The Victorie fell on vs, "", " King. Great happinesse", "", " Rosse. That now Sweno, the Norwayes King,", Craues composition:, Nor would we deigne him buriall of his men,, Till he disbursed, at Saint Colmes ynch,, Ten thousand Dollars, to our generall vse, "", " King. No more that Thane of Cawdor shall deceiue", Our Bosome interest: Goe pronounce his present death,, And with his former Title greet Macbeth, "", " Rosse. Ile see it done", "", " King. What he hath lost, Noble Macbeth hath wonne.", "", Exeunt., "", "", Scena Tertia., "", Thunder. Enter the three Witches., "", " 1. Where hast thou beene, Sister?", " 2. Killing Swine", "", " 3. Sister, where thou?", " 1. A Sailors Wife had Chestnuts in her Lappe,", And mouncht, & mouncht, and mouncht:, Gie me, quoth I., Aroynt thee, Witch, the rumpe-fed Ronyon cryes., Her Husband's to Aleppo gone, Master o' th' Tiger:, But in a Syue Ile thither sayle,, And like a Rat without a tayle,, Ile doe, Ile doe, and Ile doe, "", " 2. Ile giue thee a Winde", "", " 1. Th'art kinde", "", " 3. And I another", "", " 1. I my selfe haue all the other,", And the very Ports they blow,, All the Quarters that they know,, I'th' Ship-mans Card., Ile dreyne him drie as Hay:, Sleepe shall neyther Night nor Day , Hang vpon his Pent-house Lid:, He shall liue a man forbid:, Wearie Seu'nights, nine times nine,, Shall he dwindle, peake, and pine:, Though his Barke cannot be lost,, Yet it shall be Tempest-tost ., Looke what I haue, "", " 2. Shew me, shew me", "", " 1. Here I haue a Pilots Thumbe,", Wrackt, as homeward he did come., "", Drum within., "", " 3. A Drumme, a Drumme:", Macbeth doth come, "", " All. The weyard Sisters, hand in hand,", Posters of the Sea and Land,, Thus doe goe, about, about,, Thrice to thine, and thrice to mine,, And thrice againe, to make vp nine., Peace, the Charme's wound vp., Enter Macbeth and Banquo., "", " Macb. So foule and faire a day I haue not see ne", "", " Banquo. How farre is't call'd to Soris? What are these,", So wither'd, and so wilde i n their attyre,, That looke not like th' Inhabitants o'th' Earth,, And yet are on't? Liue you, or are you aught, That man may question? you seeme to vnderstand me,, By each at once her choppie fin ger laying, Vpon her skinnie Lips: you should be Women,, And yet your Beards forbid me to interpre te, That you are so, "", " Mac. Speake if you can: what are you?", " 1. All haile Macbeth, hail e to thee Thane of Glamis", "", " 2. All haile Macbeth, haile to thee Thane of Cawdor", "", " 3. All haile Macbeth, that shalt be King hereafter", "", " Banq. Good Sir, why doe you start, an d seeme to feare", Things that doe sound so faire? i'th' name of truth, Are ye fantasticall, or th at indeed, Which outwardly ye shew? My Noble Partner, You greet with present Grace, and great pred iction, Of Noble hauing, and of Royall hope,, That he seemes wrapt withall: to me you speake not., If you can looke into the Seedes of Time,, And say, which Graine will grow, and which will not,, S peake then to me, who neyther begge, nor feare, Your fauors, nor your hate, "", " 1. Hayle", "", " 2. Hayle", "", " 3. Hayle", "", " 1. Lesser than Macbeth, and greater", "", " 2. Not so happy, yet much happyer", "", " 3. Thou shalt get Kings, though thou be none:", So all haile Mac beth, and Banquo, "", " 1. Banquo, and Macbeth, all haile", "", " Macb. Stay you imperfect Spe akers, tell me more:", By Sinells death, I know I am Thane of Glamis,, But how, of Cawdor? the Tha ne of Cawdor liues, A prosperous Gentleman: And to be King,, Stands not within the prospect of bel eefe,, No more then to be Cawdor. Say from whence, You owe this strange Intelligence, or why, Vpon this blasted Heath you stop our way, With such Prophetique greeting?, Speake, I charge you., "", W itches vanish., "", " Banq. The Earth hath bubbles, as the Water ha's,", And these are of them: whither are they vanish'd?, " Macb. Into the Ayre: and what seem'd corporall,", Melted, as breath into the Winde., Would they had stay'd, "", " Banq. Were such things here, as we doe speake abou t?", Or haue we eaten on the insane Root,, That takes the Reason Prisoner?, " Macb. Your Children

shall be Kings", "", " Banq. You shall be King", "", " Macb. And Thane of Cawdor too: went it not so?", " Banq. Toth' selfe-same tune and words: who's here?", Enter Rosse and Angus., "", " Rosse. The King hath happily receiu'd, Macbeth,", The newes of thy successe: and when he readeas, Thy personall Venture in the Rebels sight,, His Wonders and his Prayses doe contend,, Which should be thine, or his: silenc'd with that,, In viewing o're the rest o'th' selfe-same day,, He findes thee in the stout Norwegian Rankes,, Nothing afeard of what thy selfe didst make, Strange Images of death, as thick as Tale, Can post with post, and euery one did beare, Thy prayses in his Kingdomes great defence,, And powr'd them downe before him, "", " Ang. Wee are sent,", To giue thee from our Royall Master thanks,, Onely to harrold thee into his sight,, Not pay thee, "", " Rosse. And for an earnest of a greater Honor,", He bad me, from him, call thee Thane of Cawdor:, In which addition, haile most worthy Thane,, For it is thine, "", " Banq. What, can the Deuill speake true?" , " Macb. The Thane of Cawdor liues:", Why doe you dresse me in borrowed Robes?, " Ang. Who was the Thane, liues yet,", But vnder heauie Iudgement bears that Life,, Which he deserues to loose., Whether he was combin'd with those of Norway,, Or did lyne the Rebells with hidden helpe,, And vant age; or that with both he labour'd, In his Countreyes wracke, I know not:, But Treasons Capitall, confess'd, and prou'd,, Haue ouerthrowne him, "", " Macb. Glamys, and Thane of Cawdor:", The greatest is behinde. Thankes for your paines., Doe you not hope your Children shall be Kings,, When those that gaue the Thane of Cawdor to me,, Promis'd no lesse to them, "", " Banq. That trusted home,", Might yet enkindle you vnto the Crowne,, Besides the Thane of Cawdor. But 'tis strange:, And oftentimes, to winne vs to our harme,, The Instruments of Darknesse tell vs Truths,, Winne vs with honest Trifles, to betray's, In deepest consequence., Cousins, a word, I pray you, "", " Macb . Two Truths are told,", As happy Prologues to the swelling Act, Of the Imperiall Theame. I thanke you Gentlemen:, This supernaturall solliciting, Cannot be ill; cannot be good., If ill? why hath it giuen me earnest of successe,, Commencing in a Truth? I am Thane of Cawdor., If good? why doe I yeeld to that suggestion,, Whose horrid Image doth vnfirxe my Heire,, And make my seated Heart knoc k at my Ribbes,, Against the vse of Nature? Present Feares, Are lesse then horrible Imaginings:, My Thought, whose Murther yet is but fantasticall,, Shakes so my single state of Man,, That Function is smother'd in surmise,, And nothing is, but what is not, "", " Banq. Looke how our Partner's rapt", "", " Macb. If Chance will haue me King,", Why Chance may Crowne me,, Without my stirre, "", " Banq. New Honors come vpon him", Like our strange Garments, cleave not to their mould,, Bu t with the aid of vse, "", " Macb. Come what come may,", Time, and the Houre, runs through the roughest Day, "", " Banq. Worthy Macbeth, wee stay vpon your leasure", "", " Macb. Giue me your fauour:", My dull Braine was wrought with things forgotten., Kinde Gentlemen, your paines are registred,, Where every day I turne the Leafe,, To reade them., Let vs toward the King: thinke vpon, What hath chanc'd: and at more time,, The Interim hauing weigh'd it, let vs speake, Our free Hearts each to other, "", " Banq. Very gladly", "", " Macb. Till then enough:, Come friends., "", Exeunt., "", "", Scena Quarta., "", Flourish. Enter King, Lenox, Malcolme, Donalbaine, and, Attendants., "", " King. Is execution done on Cawdor?", Or not those in Commission yet return'd?, " Mal. My Liege, they are not yet come back.", But I haue spoke with one that saw him die:, Who did report, that very frankly hee, Confess'd his Treasons, implor'd your Highnesse Pardon,, And set forth a deepe Repentance:, Nothing in his Life became him,, Like the leauing it. Hee dy'de,, As one that had beene studied in his death,, To throw away the dearest thing he ow'd,, As 'twere a carelesse Trifle, "", " King. There's no Art,", To finde the Mindes construction in the Face., He was a Gentleman, on whom I built, An absolute Trust., Enter Macbeth, Banquo, Rosse, and Angus., "", O worthy est Cousin,, The sinne of my Ingratitude euen now, Was heauie on me. Thou art so farre before,, That swiftest Wing of Recompence is slow,, To ouertake thee. Would thou hadst lesse deseru'd,, That the proportion both of thanks, and payment,, Might haue beene mine: onely I haue left to say,, More is thy due, then more then all can pay, "", " Macb. The seruice, and the loyaltie I owe,", In doing it, payes it selfe., Your Highnesse part, is to receiue our Duties:, And our Duties are to y our Throne, and State,, Children, and Seruants; which doe but what they should,, By doing euery thing safe toward your Loue, And Honor, "", " King. Welcome hither:", I haue begun to plant thee, and will labour, To make thee full of growing. Noble Banquo,, That hast no lesse deseru'd, nor must be knowne, No lesse to haue done so: Let me enfold thee,, And hold thee to my Heart, "", " Banq. There if I grow,", The Haruest is your owne, "", " King. My plenteous Ioyes,", Wanton in fulnesse, seeke to hide themselues, In drops of sorrow. Sonnes, Kinsmen, Thanes,, And you whose places are the nearest, know,, We will establish our Estate vpon, Our eldest, Malcolme, whom we name here after,, The Prince of Cumberland: which Honor must, Not vnaccompained, inuest him onely,, But sign es of Noblenesse, like Starres, shall shine, On all deseruers. From hence to Envernes,, And binde

vs further to you, "", " Macb. The Rest is Labor, which is not vs'd for you:", Ile be my selfe t  
he Herbenger, and make ioyfull, The hearing of my Wife, with your approach:, So humbly take my lea  
ue, "", " King. My worthy Cawdor", "", " Macb. The Prince of Cumberland: that is a step,", On  
which I must fall downe, or else o're-leape,, For in my way it lyes. Starres hide your fires,, Let  
not Light see my black and deepe desires:, The Eye winke at the Hand: yet let that bee,, Which the  
Eye feares, when it is done to see., Enter., "", " King. True worthy Banquo: he is full so valian  
t,", And in his commendations, I am fed:, It is a Banquet to me. Let's after him,, Whose care is g  
one before, to bid vs welcome:, It is a peerelesse Kinsman., "", Flourish. Exeunt., "", "", Scena  
Quinta., "", Enter Macbeths Wife alone with a Letter., "", " Lady. They met me in the day of succ  
esse: and I haue", learn'd by the perfect'st report, they haue more in them, then, mortall knowled  
ge. When I burnt in desire to question them, further, they made themselues Ayre, into which they v  
anish'd., Whiles I stood rapt in the wonder of it, came Missiues from, the King, who all-hail'd me  
Thane of Cawdor, by which Title, before, these weyward Sisters saluted me, and referr'd me to, the  
comming on of time, with haile King that shalt be. This, haue I thought good to deliuer thee (my d  
earest Partner of, Greatnesse) that thou might'st not loose the dues of reioycing, by being ignora  
nt of what Greatnesse is promis'd thee. Lay, it to thy heart and farewell., Glamys thou art, and C  
awdor, and shalt be, What thou art promis'd: yet doe I feare thy Nature,, It is too full o'th' Mil  
ke of humane kindnesse,, To catch the neerest way. Thou would'st be great,, Art not without Ambiti  
on, but without, The illnesse should attend it. What thou would'st highly,, That would'st thou hol  
ily: would'st not play false,, And yet would'st wrongly winne., Thould'st haue, great Glamys, that  
which cryes,, Thus thou must doe, if thou haue it;, And that which rather thou do'st feare to doe,  
, Then wishest should be vndone. High thee hither,, That I may powre my Spirits in thine Eare,, An  
d chastise with the valour of my Tongue, All that impeides thee from the Golden Round,, Which Fate  
and Metaphysicall ayde doth seeme, To haue thee crown'd withall., Enter Messenger., "", What is yo  
ur tidings?, " Mess. The King comes here to Night", "", " Lady. Thou'rt mad to say it.", Is not  
thy Master with him? who, wer't so,, Would haue inform'd for preparation, "", " Mess. So please  
you, it is true: our Thane is comming:", One of my fellowes had the speed of him;, Who almost dead  
for breath, had scarcely more, Then would make vp his Message, "", " Lady. Giue him tending,", H  
e brings great newes,, "", Exit Messenger., "", The Rauen himselfe is hoarse,, That croakes the fa  
tall entrance of Duncan, Vnder my Battlements. Come you Spirits,, That tend on mortall thoughts, v  
nsex me here,, And fill me from the Crowne to the Toe, top-full, Of direst Crueltie: make thick my  
blood,, Stop vp th' accesse, and passage to Remorse,, That no compunctions visitings of Nature, Sh  
ake my fell purpose, nor keepe peace betweene, Th' effect, and hit. Come to my Womans Brests,, And  
take my Milke for Gall, you murth'ring Ministers,, Where-euer, in your sightlesse substances,, You  
wait on Natures Mischief. Come thick Night,, And pall thee in the dunnest smoake of Hell,, "", Th  
at my keene Knife see not the Wound it makes,, Nor Heauen peepe through the Blanket of the darke,,  
To cry, hold, hold., Enter Macbeth., "", Great Glamys, worthy Cawdor,, Greater then both, by the a  
ll-haile hereafter,, Thy Letters haue transported me beyond, This ignorant present, and I feele no  
w, The future in the instant, "", " Macb. My dearest Loue,", Duncan comes here to Night, "", "  
Lady. And when goes hence?", " Macb. To morrow, as he purposes", "", " Lady. O neuer,", Shall S  
unne that Morrow see., Your Face, my Thane, is as a Booke, where men, May reade strange matters, t  
o beguile the time., Looke like the time, beare welcome in your Eye,, Your Hand, your Tongue: look  
e like th' innocent flower,, But be the Serpent vnder't. He that's comming,, Must be prouided for:  
and you shall put, This Nights great Businesse into my dispatch,, Which shall to all our Nights, a  
nd Dayes to come,, Giue solely soueraigne sway, and Masterdome, "", " Macb. We will speake furth  
er,", " Lady. Onely looke vp cleare:", To alter fauor, euer is to feare:, Leave all the rest to m  
e., "", Exeunt., "", "", Scena Sexta., "", Hoboyes, and Torches. Enter King, Malcolme, Donalbaine,  
, Banquo, Lenox,, Macduff, Rosse, Angus, and Attendants., "", " King. This Castle hath a pleasant  
seat,", The ayre nimblly and sweetly recommends it selfe, Vnto our gentle sences, "", " Banq. Thi  
s Guest of Summer,", The Temple-haunting Barlet does approue,, By his loued Mansony, that the Hea  
uens breath, Smells wooingly here: no Iutty frieze,, Buttrice, nor Coigne of Vantage, but this Bir  
d, Hath made his pendant Bed, and procreant Cradle,, Where they must breed, and haunt: I haue obse  
ru'd, The ayre is delicate., Enter Lady., "", " King. See, see our honor'd Hostesse:", The Loue t  
hat followes vs, sometime is our trouble,, Which still we thanke as Loue. Herein I teach you,, How  
you shall bid God-eyld vs for your paines,, And thanke vs for your trouble, "", " Lady. All our  
seruice,", In euery point twice done, and then done double,, Were poore, and single Businesse, to  
contend, Against those Honors deepe, and broad,, Wherewith your Maiestie loades our House:, For th  
ose of old, and the late Dignities,, Heap'd vp to them, we rest your Ermites, "", " King. Where'

s the Thane of Cawdor?", We courst him at the heeles, and had a purpose, To be his Purveyor: But he rides well,, And his great Loue (sharpe as his Spurre) hath holp him, To his home before vs: Fair and Noble Hostesse, We are your guest to night, "", " La. Your Seruants euer,", Haue theirs, themselves, and what is theirs in compt,, To make their Audit at your Highnesse pleasure,, Still to returne your owne, "", " King. Giue me your hand:", Conduct me to mine Host we loue him highly ,, And shall continue, our Graces towards him., By your leauie Hostesse., "", Exeunt., "", Scena Septima., "", Hoboyes. Torches. Enter a Sewer, and diuers Seruants with Dishes, and, Seruice ouer the Stage. Then enter Macbeth, "", " Macb. If it were done, when 'tis done, then 'twere well,", It were done quickly: If th' Assassination, Could trammell vp the Consequence, and catch, With his successe, Successe: that but this blow, Might be the be all, and the end all. Heere,, But heere, vpon this Banke and Schoole of time,, Wee'l d iumpe the life to come. But in these Cases,, We still haue iudgement heere, that we but teach, Bloody Instructions, which being taught, returne, To plague th' Inuenter, this eu'en-handed Iustice, Commends th' Ingredience of our poyson'd Challice, To our owne lips. Hee's heere in double trust;, First, as I am his Kinsman, and his Subiect,)

```
val mywords = myfile.flatMap(line => line.split(" "))
mywords.take(10)

mywords: org.apache.spark.rdd.RDD[String] = MapPartitionsRDD[16] at flatMap at command-80912577885
3970:1
res11: Array[String] = Array(**The, Project, Gutenberg's, Etext, of, Shakespeare's, First, Folio**,
**, *****The, Tragedie**)

valmypairs = mywords.map(word => (word,1))

mypairs: org.apache.spark.rdd.RDD[(String, Int)] = MapPartitionsRDD[17] at map at command-80912577
8853971:1

val wordcount = mypairs.reduceByKey ( (x,y) => x+y)

wordcount: org.apache.spark.rdd.RDD[(String, Int)] = ShuffledRDD[18] at reduceByKey at command-809
125778853972:1

for( x<-wordcount.collect()){ println (x) }

(Macduff.,2)
(someone,1)
(better.,1)
(University".,1)
(v,,1)
(Predecessors,,1)
(saide,1)
(Houres,1)
(Iewell,1)
(*BEFORE!*,1)
(order,2)
(smoak'd,1)
(Ring,,1)
(Friend,2)
(perceiue,1)
(Father,,1)
(Company?,1)
(wasn't,1)
(Wake,1)
(been,6)
(Rubs,1)
(gap,1)
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(they,,1)  
(crying,1)  
(stampe,1)  
(Reason.,1)  
(Quinta.,3)  
(breath,6)  
(Truths,,1)  
(your@login,1)  
(paines.,1)  
(Haruest,1)  
(trauailing,1)  
(Chamber,,3)  
(dismall,,1)  
(tune,1)  
(Worthie,1)  
(are,70)  
(Store-house,1)  
(2.,12)  
(shut,3)  
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(IS,1)  
(grant,1)  
(Lyar,,1)  
(lyne,1)  
(Why,,1)  
(Thunder.,6)  
(Cruelty,,1)  
(chafes,,1)  
(Mummey,,1)  
(Vnlesse,1)  
(Soueraigne,1)  
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(midnight,2)  
(son,1)  
(thee,,8)  
(thus,6)  
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(Earles,,1)  
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(generall,,1)  
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('gins,1)  
(cliche,1)  
(expectation,,1)  
(Skie,,1)  
(Primus.,1)  
(Partner's,1)  
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(didst,2)  
(rendred:,1)

(Macbeth.,9)  
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(Macdonwald,1)  
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(Worke:,1)  
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(backs.,1)  
(point,3)  
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(stop,1)  
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(Charme's,1)  
(Temp'rance,,1)  
(Macbeth\*\*\*\*\*2)  
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(stuck,1)  
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(trust;,1)  
(Braine,1)  
(Minister,1)  
(Heere's,2)  
(him),2  
(Roote,1)  
(GUTENBERG-TM,1)  
(donations.,1)  
(vanish.,2)  
(Fortune,1)  
(vndon.,1)  
(Lad.,3)  
(third,,1)  
(Lampe:,1)

(Ingredience,2)  
(Christendome,1)  
(paine:,1)  
(assault,1)  
(guild,1)  
(pretend?,1)  
(thought:,1)  
(possible,1)  
(Doome?,1)  
(Should,1)  
(owe,1)  
(theirs,,1)  
(meaning,1)  
(him?,1)  
(1,12)  
(strooke,1)  
(use,3)  
(Schoole,1)  
(Notes:,2)  
(Trafficke,1)  
(All's,1)  
(confirme,1)  
(Wip'd,1)  
(oddes,1)  
(mortall,6)  
(Sister?,1)  
(s's,1)  
(Hold,1)  
(available,3)  
(backward,1)  
(Father?,3)  
(ouer-red,1)  
(Graue;,1)  
(Hecat.,1)  
(must,35)  
(direction,1)  
(vnattended.,1)  
(Winde.,1)  
(Art:,1)  
(besides,1)  
(Mansion,,1)  
(filthie,2)  
(Masters,1)  
(vnbattered,1)  
(beleeu'd,,1)  
(you!),1  
(Wife:,1)  
(Beare,,1)  
(particular,1)  
(I'th',1)  
(Hand,,2)  
(do,,4)  
(greatest,2)  
(Possets,,1)  
(Diuellish,1)  
(goodnight.,1)  
(weepes,,1)  
(glassee,1)

(being,,1)  
(which,45)  
(Don.,1)  
(pleade,1)  
(should,44)  
(cleares,1)  
((if,2)  
(Legges,1)  
.such,1)  
(possible.,1)  
(Serieant,,1)  
(her,33)  
(Key,,1)  
(Cure:,1)  
(put,14)  
(terrible,4)  
(nice,,1)  
(Art,,1)  
(great,,1)  
(Murtherers,,1)  
(darke:,1)  
(obscure,1)  
(Hose:,1)  
(damage,1)  
(forge,1)  
(Feast,,2)  
(sure,,2)  
(Thou'lt,1)  
(Tyranny:,1)  
(by,55)  
(familiar,1)  
(path,1)  
(Minde,,4)  
(Witchcraft,1)  
(caution,,1)  
(awake,,3)  
(remember,4)  
(7,1)  
(warrant,1)  
(both,,1)  
(mile:,1)  
(call'd,4)  
(faine,1)  
(lot,1)  
(Brests,,1)  
(Art,4)  
((such,1)  
(blasted,1)  
(Himselfe,1)  
(Root?,1)  
(Amen,3)  
(abroad:,1)  
(GUTINDEX.99],1)  
(Shield:,1)  
(Feare:,1)  
(auouches,,1)  
(delicate.,1)  
(againe:,3)

```
(mistakes,1)
(files.,1)
(Fell,2)
(Soules,3)
(Doore,1)
(much.,1)
(statement,2)
(shine,,1)
(illnesse,1)
(work,1)
(predominance,,1)
(arm'd,1)
(Hayle,3)
(vnder,5)
(20%,1)
(blessing,1)
(woman?,1)
(Sleep,1)
(Alas,2)
(Watch,1)
(Hand,3)
(Woman?,1)
(Damned,1)
(comment,1)
(became,2)
```

```
val df_emps = spark.read.option("header","true").csv("dbfs:/FileStore/tables/employee.txt")
df_emps.take(10)
```

```
df_emps: org.apache.spark.sql.DataFrame = [id: string, last_name: string ... 7 more fields]
res13: Array[org.apache.spark.sql.Row] = Array([1,'Kelley','rkkelley@soundcloud.com','Female','Computers','10/2/2009',67470,'Structural Engineer',2], [2,'Armstrong','sarmstrong1@infoseek.co.jp','Male','Sports','3/31/2008',71869,'Financial Advisor',2], [3,'Carr','fcarr2@woothemes.com','Male','Automotive','7/12/2009',101768,'Recruiting Manager',3], [4,'Murray','jmurray3@gov.uk','Female','Jewelry','12/25/2014',96897,'Desktop Support Technician',3], [5,'Ellis','jellis4@sciencedirect.com','Female','Grocery','9/19/2002',63702,'Software Engineer III',7], [6,'Phillips','bphillips5@time.com','Male','Tools','8/21/2013',118497,'Executive Secretary',1], [7,'Williamson','rwwilliamson6@ted.com','Male','Computers','5/14/2006',65889,'Dental Hygienist',6], [8,'Harris','aharris7@ucoz.com','Female','Toys','8/12/2003',84427,'Safety Technician I',4], [9,'James','rjames8@prnewswire.com','Male','Jewelery','9/7/2005',108657,'Sales Associate',2], [10,'Sanchez','rsanchez9@cloudflare.com','Male','Movies','3/13/2013',108093,'Sales Representative',1])
```

```
df_emps.show()
```

id	last_name	email	gender	department	start_date	salary	job_title	region_id
1	'Kelley' 'rkkelley@soundcl... 'Female'  'Computers'  '10/2/2009'  67470 'Structural Engin...							
2	'Armstrong' 'sarmstrong1@info...  'Male'  'Sports'  '3/31/2008'  71869  'Financial Advisor'							
3	'Carr' 'fcarr2@woothemes...  'Male'  'Automotive'  '7/12/2009' 101768 'Recruiting Manager'							
4	'Murray'  'jmurray3@gov.uk'  'Female'  'Jewelery'  '12/25/2014'  96897 'Desktop Support ...  3							

```

| 5| 'Ellis'||jellis4@scienced...||'Female'|| 'Grocery'|| '9/19/2002'|| 63702||'Software Engine
e...|    7|
| 6| 'Phillips'||bphillips5@time....|| 'Male'|| 'Tools'|| '8/21/2013'||118497||'Executive Secre
t...|    1|
| 7| 'Williamson'||rwilliamson6@ted...|| 'Male'|| 'Computers'|| '5/14/2006'|| 65889|| 'Dental Hygien
ist'||    6|
| 8| 'Harris'|| aharris7@ucoz.com||'Female'|| 'Toys'|| '8/12/2003'|| 84427||'Safety Technici
a...|    4|
| 9| 'James'||rjames8@prnewswi...|| 'Male'|| 'Jewelery'|| '9/7/2005'||108657|| 'Sales Associ
ate'||    2|
|10| 'Sanchez'||rsanchez9@cloudf...|| 'Male'|| 'Movies'|| '3/13/2013'||108093||'Sales Represent
a...|    1|
|11| 'Jacobs'||jjacobsa@sbwire....||'Female'|| 'Jewelery'|| '11/27/2003'||121966||'Community Outre
a...|    7|
|12| 'Black'||mblackb@edublogs...|| 'Male'|| 'Clothing'|| '2/4/2003'|| 44179|| 'Data Coordia
tor'||    7|
|13| 'Schmidt'||sschmidtc@state....|| 'Male'|| 'Baby'|| '10/13/2002'|| 85227||'Compensation An
a...|    3|
|14| 'Webb'|| awebbd@baidu.com||'Female'|| 'Computers'|| '10/22/2006'|| 59763||'Software Test E
n...|    4|
|15| 'Jacobs'||ajacobse@google.it||'Female'|| 'Games'|| '3/4/2007'||141139||'Community Outre
a...|    7|
|16| 'Medina'||smedinaf@amazona...||'Female'|| 'Baby'|| '3/14/2008'||106659|| 'Web Developer
III'||    1|
|17| 'Morgan'||dmorgang@123-reg...||'Female'|| 'Kids'|| '5/4/2011'||148952|| 'Programmer
IV'||    6|
|18| 'Nguyen'||jnguyenh@google....|| 'Male'|| 'Home'|| '11/3/2014'|| 93804|| 'Geologist
II'||    5|
|19| 'Day'||rdayi@chronoengi...|| 'Male'|| 'Electronics'|| '9/22/2004'||109890|| 'VP Sa
les'||    3|
|20| 'Carr'||dcarrj@ocn.ne.jp||'Female'|| 'Movies'|| '11/22/2007'||115274||'VP Quality Cont
rol'||    5|
+---+-----+-----+-----+-----+-----+-----+
-----+
only showing top 20 rows

```

```
df_emps.columns
```

```
res16: Array[String] = Array(id, last_name, email, gender, department, start_date, salary, job_title, region_id)
```

```
val df_cr = spark.read.option("header","true").csv("dbfs:/FileStore/tables/country_region.txt")
df_cr.show()
```

region_id	company_regions	country
1	'Northeast'	'USA'
2	'Southeast'	'USA'
3	'Northwest'	'USA'
4	'Southwest'	'USA'
5	'British Columbia'	'Canada'
6	'Quebec'	'Canada'
7	'Nova Scotia'	'Canada'

```
df_cr: org.apache.spark.sql.DataFrame = [region_id: string, company_regions: string ... 1 more fie
```

```
ld]
```

```
val df_dd = spark.read.option("header","true").csv("dbfs:/FileStore/tables/dept_div.txt")
df_dd.show()
```

```
+-----+-----+
| department| company_division|
+-----+-----+
| 'Automotive'| 'Auto & Hardware'| |
| 'Baby'| 'Domestic'|
| 'Beauty'| 'Domestic'|
| 'Clothing'| 'Domestic'|
| 'Computers'|| 'Electronic Equip...|
| 'Electronics'|| 'Electronic Equip...|
| 'Games'| 'Domestic'|
| 'Garden'| 'Outdoors & Garden'|
| 'Grocery'| 'Domestic'|
| 'Health'| 'Domestic'|
| 'Home'| 'Domestic'|
| 'Industrial'| 'Auto & Hardware'|
| 'Jewelery'| 'Fashion'|
| 'Kids'| 'Domestic'|
| 'Movies'| 'Entertainment'|
| 'Music'| 'Entertainment'|
| 'Outdoors'|| 'Outdoors & Garden'|
| 'Shoes'| 'Domestic'|
| 'Sports'| 'Games & Sports'|
| 'Tools'| 'Auto & Hardware'|
+-----+-----+
only showing top 20 rows
```

```
df_dd: org.apache.spark.sql.DataFrame = [department: string, company_division: string]
```

```
df_emps.createOrReplaceTempView("employee")
```

```
val sqldf_emps = spark.sql("SELECT * FROM employee")
sqldf_emps.show()
```

```
+-----+-----+-----+-----+-----+
| id| last_name| email| gender| department| start_date|salary| job_t
itle|region_id|
+-----+-----+-----+-----+-----+
| 1| 'Kelley'||'rkkelley0@soundcl...||'Female'|| 'Computers'|| '10/2/2009'|| 67470||'Structural Engi
n...| 2|
| 2| 'Armstrong'||'sarmstrong1@info...|| 'Male'|| 'Sports'|| '3/31/2008'|| 71869|| 'Financial Adv
isor'|| 2|
| 3| 'Carr'||'fcarr2@woothemes...|| 'Male'|| 'Automotive'|| '7/12/2009'|| 101768|| 'Recruiting Mana
ger'|| 3|
| 4| 'Murray'|| 'jmurray3@gov.uk'||'Female'|| 'Jewelery'|| '12/25/2014'|| 96897|| 'Desktop Support
...| 3|
| 5| 'Ellis'||'jellis4@scienced...||'Female'|| 'Grocery'|| '9/19/2002'|| 63702|| 'Software Engine
e...| 7|
| 6| 'Phillips'||'bphillips5@time....|| 'Male'|| 'Tools'|| '8/21/2013'|| 118497|| 'Executive Secre
t...| 1|
| 7| 'Williamson'||'rwilliamson6@ted...|| 'Male'|| 'Computers'|| '5/14/2006'|| 65889|| 'Dental Hygien
```

```

ist'|      6|
|  8| 'Harris'| 'aharris7@uкоz.com'||'Female'|      'Toys'| '8/12/2003'| 84427|'Safety Technici
a...|      4|
|  9| 'James'||'rjames8@prnewswi...|  'Male'|  'Jewelery'|  '9/7/2005'|108657|   'Sales Associ
ate'|      2|
| 10| 'Sanchez'||'rsanchez9@cloudf...|  'Male'|  'Movies'| '3/13/2013'|108093|'Sales Represent
a...|      1|
| 11| 'Jacobs'||'jjacobsa@sbwire....|'Female'|  'Jewelery'||'11/27/2003'|121966|'Community Outre
a...|      7|
| 12| 'Black'||'mblackb@edublogs...|  'Male'|  'Clothing'| '2/4/2003'| 44179|   'Data Coordia
tor'|      7|
| 13| 'Schmidt'||'sschmidtc@state....|  'Male'|  'Baby'| '10/13/2002'| 85227|'Compensation An
a...|      3|
| 14| 'Webb'|  'awebbd@baidu.com'||'Female'|  'Computers'|'10/22/2006'| 59763|'Software Test E
n...|      4|
| 15| 'Jacobs'||'ajacobse@google.it'||'Female'|  'Games'|  '3/4/2007'|141139|'Community Outre
a...|      7|
| 16| 'Medina'||'smedinaf@amazona...||'Female'|  'Baby'| '3/14/2008'|106659| 'Web Developer
III'|      1|
| 17| 'Morgan'||'dmorgang@123-reg...||'Female'|  'Kids'|  '5/4/2011'|148952|   'Programmer
IV'|      6|
| 18| 'Nguyen'||'jnguyenh@google....|  'Male'|  'Home'| '11/3/2014'| 93804|   'Geologist
II'|      5|
| 19| 'Day'||'rdayi@chronoengi...|  'Male'||'Electronics'| '9/22/2004'|109890|   'VP Sa
les'|      3|
| 20| 'Carr'|  'dcarrj@ocn.ne.jp'||'Female'|  'Movies'|'11/22/2007'|115274|'VP Quality Cont
rol'|      5|
+---+-----+-----+-----+-----+-----+-----+
-----+
only showing top 20 rows

```

```
sqlDF_emps: org.apache.spark.sql.DataFrame = [id: string, last_name: string ... 7 more fields]
```

```
val sqlDF_emps_by_dept = spark.sql("SELECT department,count(*) FROM employee GROUP BY department")
sqlDF_emps_by_dept.show()
```

```
+-----+-----+
|  department|count(1)|
+-----+-----+
|  'Clothing'|    53|
|  'Books'|     47|
|  'Garden'|    47|
|  'Baby'|     45|
|  'Beauty'|    53|
|  'Automotive'|  46|
|  'Grocery'|   46|
|  'Home'|     52|
|  'Electronics'| 49|
|  'Sports'|    40|
|  'Health'|    46|
|  'Outdoors'|   48|
|  'Kids'|     38|
|  'Tools'|    39|
|  'Music'|    37|
|  'Games'|    49|
|  'Movies'|    36|
|  'Toys'|     41|
|  'Jewelery'|   46|
```

```
| 'Computers' |      52 |
+-----+-----+
only showing top 20 rows

sqldf_emps_by_dept: org.apache.spark.sql.DataFrame = [department: string, count(1): bigint]

val sqldf_emps_by_dept_gender = spark.sql("SELECT department, gender, count(*) FROM employee GROUP BY department, gender")
sqldf_emps_by_dept_gender.show()

+-----+-----+-----+
| department| gender|count(1)|
+-----+-----+-----+
| 'Grocery' | 'Male' |    22 |
| 'Health'  | 'Female'|    25 |
| 'Health'  | 'Male'  |    21 |
| 'Tools'   | 'Female'|    21 |
| 'Home'    | 'Male'  |    20 |
| 'Kids'   | 'Male'  |    17 |
| 'Movies'  | 'Male'  |    22 |
| 'Toys'   | 'Male'  |    24 |
| 'Computers'| 'Female'|    26 |
| 'Outdoors' | 'Male'  |    20 |
| 'Beauty'  | 'Male'  |    25 |
| 'Automotive'| 'Male' |    26 |
| 'Books'   | 'Male'  |    23 |
| 'Beauty'  | 'Female'|    28 |
| 'Music'   | 'Male'  |    18 |
| 'Games'   | 'Male'  |    24 |
| 'Electronics'| 'Female'|    23 |
| 'Industrial'| 'Male' |    29 |
| 'Jewelery' | 'Male'  |    26 |
| 'Industrial'| 'Female'|    18 |
+-----+-----+-----+
only showing top 20 rows

sqldf_emps_by_dept_gender: org.apache.spark.sql.DataFrame = [department: string, gender: string .. . 1 more field]

val sqldf_depts = spark.sql("SELECT DISTINCT department FROM employee")
sqldf_depts.show()

+-----+
| department|
+-----+
| 'Clothing' |
| 'Books'   |
| 'Garden'  |
| 'Baby'   |
| 'Beauty'  |
| 'Automotive' |
| 'Grocery' |
| 'Home'   |
| 'Electronics' |
| 'Sports'  |
| 'Health'  |
| 'Outdoors' |
| 'Kids'   |
+-----+
```

```
|      'Tools'|  
|      'Music'|  
|      'Games'|  
|      'Movies'|  
|      'Toys'|  
|      'Jewelery'|  
|      'Computers'|  
+-----+  
only showing top 20 rows  
  
sqldf_dept: org.apache.spark.sql.DataFrame = [department: string]  
  
val sqldf_emps_100 = spark.sql("SELECT * FROM employee WHERE id < 100")  
sqldf_emps_100.show()  
  
+-----+-----+-----+-----+-----+-----+-----+  
| id| last_name| email| gender| department| start_date|salary| job_t  
title|region_id|  
+-----+-----+-----+-----+-----+-----+-----+  
| 1| 'Kelley'||'rkelley0@soundcl...||'Female'|| 'Computers'|| '10/2/2009'|| 67470||'Structural Engi  
n...| 2|  
| 2| 'Armstrong'||'sarmstrong1@info...|| 'Male'|| 'Sports'|| '3/31/2008'|| 71869|| 'Financial Advi  
sor'|| 2|  
| 3| 'Carr'||'fcarr2@woothemes...|| 'Male'|| 'Automotive'|| '7/12/2009'|| 101768|| 'Recruiting Mana  
ger'|| 3|  
| 4| 'Murray'|| 'jmurray3@gov.uk'||'Female'|| 'Jewelery'|| '12/25/2014'|| 96897|| 'Desktop Support  
...| 3|  
| 5| 'Ellis'||'jellis4@scienced...||'Female'|| 'Grocery'|| '9/19/2002'|| 63702|| 'Software Engine  
e...| 7|  
| 6| 'Phillips'||'bphillips5@time....|| 'Male'|| 'Tools'|| '8/21/2013'|| 118497|| 'Executive Secre  
t...| 1|  
| 7| 'Williamson'||'rwilliamson6@ted...|| 'Male'|| 'Computers'|| '5/14/2006'|| 65889|| 'Dental Hygien  
ist'|| 6|  
| 8| 'Harris'|| 'aharris7@ucoz.com'||'Female'|| 'Toys'|| '8/12/2003'|| 84427|| 'Safety Technici  
a...| 4|  
| 9| 'James'||'rjames8@prnewswi...|| 'Male'|| 'Jewelery'|| '9/7/2005'|| 108657|| 'Sales Associa  
te'|| 2|  
| 10| 'Sanchez'||'rsanchez9@cloudf...|| 'Male'|| 'Movies'|| '3/13/2013'|| 108093|| 'Sales Represent  
a...| 1|  
| 11| 'Jacobs'||'jjacobsa@sbwire....||'Female'|| 'Jewelery'|| '11/27/2003'|| 121966|| 'Community Outre  
a...| 7|  
| 12| 'Black'||'mblackb@edublogs...|| 'Male'|| 'Clothing'|| '2/4/2003'|| 44179|| 'Data Coordia  
tor'|| 7|  
| 13| 'Schmidt'||'sschmidtc@state....|| 'Male'|| 'Baby'|| '10/13/2002'|| 85227|| 'Compensation An  
a...| 3|  
| 14| 'Webb'|| 'awebbd@baidu.com'||'Female'|| 'Computers'|| '10/22/2006'|| 59763|| 'Software Test E  
n...| 4|  
| 15| 'Jacobs'||'ajacobse@google.it'||'Female'|| 'Games'|| '3/4/2007'|| 141139|| 'Community Outre  
a...| 7|  
| 16| 'Medina'||'smedinaf@amazona...||'Female'|| 'Baby'|| '3/14/2008'|| 106659|| 'Web Developer  
III'|| 1|  
| 17| 'Morgan'||'dmorgang@123-reg...||'Female'|| 'Kids'|| '5/4/2011'|| 148952|| 'Programmer  
IV'|| 6|  
| 18| 'Nguyen'||'jnguyenh@google....|| 'Male'|| 'Home'|| '11/3/2014'|| 93804|| 'Geologist  
II'|| 5|  
| 19| 'Day'||'rdayi@chronoengi...|| 'Male'|| 'Electronics'|| '9/22/2004'|| 109890|| 'VP Sa
```

```
les' |      3|  
| 20|    'Carr'|  'dcarrj@ocn.ne.jp'||'Female'|      'Movies'||'11/22/2007'||115274||'VP Quality Cont  
rol'|      5|  
+---+-----+-----+-----+-----+-----+-----+  
----+-----+  
only showing top 20 rows  
  
sqlDF_emps_100: org.apache.spark.sql.DataFrame = [id: string, last_name: string ... 7 more fields]  
  
val df_joined = df_emps.join(df_cr,"region_id")  
  
df_joined: org.apache.spark.sql.DataFrame = [region_id: string, id: string ... 9 more fields]  
  
df_joined.columns  
  
res38: Array[String] = Array(region_id, id, last_name, email, gender, department, start_date, salary, job_title, company_regions, country)  
  
df_emps.columns  
  
res41: Array[String] = Array(id, last_name, email, gender, department, start_date, salary, job_title, region_id)  
  
res40: Array[String] = Array(region_id, company_regions, country)
```