

SHETH L.U.J. AND SIR M.V. COLLEGE OF ARTS SCIENCE AND COMMERCE

SUBJECT : R Programming

Practical No 14

Aim : Extracting date components using lubridate:: functions (R).

Output :

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Project: (None)

Source

Console Terminal < Background Jobs <

R 4.5.1 - ~

```
> library(lubridate)
> library(dplyr)
>
> amazon_df <- read.csv("Amazon.csv")
>
> processed_data <- amazon_df %>%
+   mutate(
+     Actual_date = ymd(OrderDate),
+     Year_Num = year(Actual_date),
+     Month_Num = month(Actual_date),
+     Month_Name = month(Actual_date, label = TRUE),
+     Day_Num = day(Actual_date),
+     weekday_Num = wday(Actual_date),
+     weekday_Name = wday(Actual_date, label = TRUE, abbr = FALSE),
+     Quarter = quarter(Actual_date),
+     Day_of_Year = yday(Actual_date)
+   )
>
> print(processed_data)
```

	OrderID	OrderDate	CustomerID	CustomerName	ProductID	ProductName	Category	Brand	Quantity	UnitPrice	Discount	Tax	ShippingCost	TotalAmount	PaymentMethod
1	ORDR00000001	2023-01-31	CUST001504	Vihaan Sharma	P00014	Drone Mini	Books	Brightlux	3	106.59	0.00	0.00	0.09	319.86	Debit Card
2	ORDR00000002	2023-12-30	CUST00178	Pooja Kumar	P00040	Microphone	Home & Kitchen	UrbanStyle	1	251.37	0.05	19.10	1.74	259.64	Amazon Pay
3	ORDR00000003	2023-02-12	CUST00197	Arjun Kumar	P00041	Power Bank 20000	Clouding	UrbanStyle	3	30.03	0.00	7.57	5.08	106.68	Debit Card
4	ORDR00000004	2023-07-18	CUST00359	Vihaan Reddy	P00044	webcam 1080p	Home & Kitchen	Zenith	5	33.58	0.15	18.42	5.53	159.66	Cash on Delivery
5	ORDR00000005	2023-02-04	CUST00467	Aditya Kapoor	P00029	T-shirt	Clothing	KiddoFun	2	515.64	0.25	38.67	9.23	821.36	Credit Card
6	ORDR00000006	2022-12-31	CUST00205	Karan Sharma	P00023	Cookware Set	Books	Readmore	4	449.73	0.00	215.37	2.74	2017.53	UPI
7	ORDR00000007	2024-09-20	CUST0037667	Aarav Verma	P00030	Dress Shirt	Clothing	UrbanStyle	2	219.81	0.20	28.14	14.97	394.81	UPI
8	ORDR00000008	2022-11-10	CUST001165	Rohit Kumar	P00028	Jeans	Toys & Games	KiddoFun	2	306.51	0.05	29.22	6.24	617.73	Debit Card
9	ORDR00000009	2024-06-26	CUST0026965	Amarni Kapoor	P00031	Kids toy car	Sports & Outdoors	Apex	4	146.09	0.00	46.75	7.03	638.14	Debit Card
10	ORDR00000010	2020-05-01	CUST0029472	Aarav Reddy	P00001	Wireless Earbuds	Clothing	Apex	2	278.21	0.10	60.09	4.88	565.75	Credit Card
11	ORDR00000011	2023-03-09	CUST0030468	Rohit Kumar	P00046	Smart Charger	Books	HomeEase	1	141.42	0.05	6.72	9.70	150.77	Amazon Pay
12	ORDR00000012	2023-03-09	CUST0030469	Arjun Kumar	P00042	Projector Mini	Home & Kitchen	KiddoFun	5	304.56	0.05	131.69	13.70	1782.35	Credit Card
13	ORDR00000013	2020-11-26	CUST0026576	Simran Mehta	P00016	Vacuum Cleaner	Home & Kitchen	Zenith	4	496.76	0.05	93.99	4.43	1986.50	UPI
14	ORDR00000014	2024-01-22	CUST006051	Pooja Sharma	P00040	Microphone	Home & Kitchen	Apex	3	523.27	0.00	188.38	8.04	1766.23	Debit Card
15	ORDR00000015	2020-03-28	CUST005111	Mohit Mehta	P00035	Desk Plant	Books	HomeEase	4	291.37	0.10	52.45	1.76	1103.14	Net Banking
16	ORDR00000016	2023-10-28	CUST0040957	Anjali Gupta	P00028	Jeans Sports & Outdoors	Homeease	4	533.12	0.25	79.97	2.58	1681.91	Amazon Pay	
17	ORDR00000017	2023-01-28	CUST000735	Arjun Kumar	P00025	Running Shoes	Home & Kitchens	Zenith	4	453.47	0.10	0.00	4.39	1636.88	Amazon Pay
18	ORDR00000018	2022-05-21	CUST0038237	Anjali Verma	P00039	Graphic Tablet	Toys & Games	KiddoFun	5	547.58	0.00	0.00	10.06	2747.96	Amazon Pay
19	ORDR00000019	2024-08-14	CUST004211	Aditya Mehta	P00033	Puzzle 1000pc	Electronics	Readmore	5	529.19	0.00	317.51	4.57	2968.03	Amazon Pay
20	ORDR00000020	2020-05-10	CUST006893	Vihaan Patel	P00040	Microphone Sports & Outdoors	Homeease	3	303.53	0.00	72.85	4.18	987.62	UPI	
21	ORDR00000021	2024-08-12	CUST00508	Vikas Kapoor	P00028	Jeans	Toys & Games	Apex	1	226.26	0.00	11.31	9.55	247.12	Credit Card
22	ORDR00000022	2023-08-25	CUST0048817	Pooja Sharma	P00010	Smartwatch	Books	Readmore	4	493.47	0.00	98.69	11.80	2084.37	Credit Card
23	ORDR00000023	2022-02-08	CUST0048262	Simran Reddy	P00003	Smartphone Case	Toys & Games	Apex	5	425.12	0.00	113.03	9.62	2383.25	Debit Card

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NAME : SHUBHAM SANJAY KARAPE
ROLL NO : S085

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SUBJECT : R Programming

RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Source Terminal Background Jobs

```
R > .RData
31 ord0000031 2020-10-03 CUST018693 Smita Gupta P00046 Car charger Books Apex 2 269.80 0.00 97.13 1.49 638.22 Debit Card
32 ord0000032 2023-03-20 CUST0114090 Smita Patel P00047 Gaming Head Sports & Outdoors Fitlife 4 126.50 0.10 22.77 7.01 406.18 Credit Card
33 ord0000033 2021-04-30 CUST011946 Smita Patel P00047 Memory card 128GB Electronics CoreTech 2 151.95 0.05 14.44 3.50 206.64 Credit Card
34 ord0000034 2023-08-30 CUST049225 Mohit Patel P00046 Car charger Clothing HomeEasy 1 218.74 0.00 10.94 12.22 241.90 Credit Card

Orderstatus City State Country SellerID Actual_date Year_Num Month_Num Month_Name Day_Num Weekday_Num weekday_Name Day_of_Year
1 Delivered Washington DC United States SELL01967 2023-01-31 2023 1 Jan 31 3 Tuesday 1 31
2 Delivered Fort worth TX United States SELL01298 2023-12-30 2023 12 Dec 30 7 Saturday 4 364
3 Delivered Austin TX United States SELL00908 2022-05-10 2022 5 May 10 3 Tuesday 2 130
4 Delivered Charlotte NC United States SELL01164 2023-07-18 2023 7 Jul 18 3 Tuesday 3 199
5 Cancelled San Antonio TX Canada SELL01411 2023-03-24 2023 2 Feb 4 7 Saturday 1 35
6 Delivered Los Angeles CA United States SELL01194 2023-12-31 2023 12 Dec 31 7 Saturday 4 365
7 Delivered Chicago IL Australia SELL01676 2024-09-20 2024 9 Sep 20 6 Friday 3 264
8 Pending Denver CO India SELL00510 2022-11-10 2022 11 Nov 10 5 Thursday 4 314
9 Delivered Washington DC United States SELL01895 2024-06-26 2024 6 Jun 26 4 Wednesday 2 178
10 Delivered Houston TX United States SELL01854 2020-05-01 2020 5 May 1 6 Friday 2 122
11 Delivered Jacksonville FL Australia SELL01217 2021-04-11 2021 4 Apr 11 1 Sunday 2 101
12 Shipped Charlotte NC Australia SELL01160 2023-05-23 2023 5 May 23 3 Tuesday 2 143
13 Delivered New York NY United States SELL00719 2020-11-26 2020 11 Nov 26 5 Thursday 4 331
14 Shipped Seattle WA United States SELL00606 2023-02-22 2023 8 Mar 22 2 Monday 1 22
15 Delivered Indianapolis IN United States SELL01541 2023-03-28 2023 9 Mar 28 7 Saturday 1 88
16 Delivered Jacksonville FL United States SELL00437 2023-10-28 2023 10 Oct 28 7 Saturday 4 301
17 Delivered Philadelphia PA United States SELL01071 2023-01-28 2023 1 Jan 28 7 Saturday 1 28
18 Delivered Seattle WA United States SELL00132 2022-05-21 2022 5 May 21 7 Saturday 2 141
19 Returned Phoenix AZ United States SELL01907 2024-08-14 2024 8 Aug 14 4 Wednesday 3 227
20 Delivered San Diego CA United States SELL00881 2020-05-10 2020 5 May 10 1 Sunday 2 131
21 Delivered Fort worth TX United States SELL01947 2024-08-12 2024 8 Aug 12 2 Monday 3 225
22 Delivered Chicago IL Australia SELL01672 2023-05-05 2023 8 Aug 25 6 Friday 3 237
23 Delivered Newark NJ Canada SELL01107 2023-02-08 2023 9 Mar 2 3 Tuesday 1 39
24 Delivered Dallas TX United States SELL01007 2020-12-09 2020 12 Dec 9 4 Wednesday 4 344
25 Delivered Jacksonville FL United States SELL01553 2024-02-24 2024 2 Feb 24 7 Saturday 1 55
26 Pending Columbus OH Canada SELL00342 2023-12-08 2023 12 Dec 8 6 Friday 4 342
27 Delivered San Francisco CA United States SELL01129 2022-03-16 2022 3 Mar 16 4 wednesday 1 75
28 Delivered San Antonio TX United Kingdom SELL01796 2021-01-20 2021 1 Jan 20 4 wednesday 1 20
29 Delivered Denver CO United States SELL01713 2023-04-30 2023 4 Apr 30 1 Sunday 2 120
30 Delivered Phoenix AZ United States SELL00874 2022-08-13 2022 8 Aug 13 7 Saturday 3 225
31 Delivered Charlotte NC United Kingdom SELL00707 2023-03-18 2023 10 Oct 3 7 Saturday 4 277
32 Shipped Houston TX India SELL00384 2023-03-30 2023 3 Mar 30 5 Thursday 1 89
33 Delivered Washington DC United States SELL01798 2021-04-04 2021 4 Apr 4 1 Sunday 2 94
34 Delivered Austin TX United States SELL00219 2023-08-30 2023 8 Aug 30 4 wednesday 3 242
[ reached 'max' / getoption("max.print") -- omitted 99966 rows ]
>
> current_time <- now()
> print(paste("Current Year:", year(current_time)))
[1] "Current Year: 2025"
> print(paste("Current Hour:", hour(current_time)))
[1] "Current Hour: 12"
> print(paste("Current Minute:", minute(current_time)))
[1] "Current Minute: 45"
>
```

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RStudio

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Source Terminal Background Jobs

```
R > .RData
3 Delivered Austin TX United States SELL00908 2022-05-10 2022 5 May 10 3 Tuesday 2 130
4 Delivered Charlotte NC India SELL01164 2023-07-18 2023 7 Jul 18 3 Tuesday 3 199
5 Cancelled San Antonio TX Canada SELL01411 2023-02-04 2023 2 Feb 4 7 Saturday 1 35
6 Delivered Los Angeles CA United States SELL0194 2022-12-31 2022 12 Dec 31 7 Saturday 4 365
7 Delivered Chicago IL Australia SELL01676 2024-09-20 2024 9 Sep 20 6 Friday 3 264
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16 Delivered Jacksonville FL United States SELL00437 2023-10-28 2023 10 Oct 28 7 Saturday 4 301
17 Delivered Philadelphia PA United States SELL01971 2023-01-28 2023 1 Jan 28 7 Saturday 1 28
18 Delivered Seattle WA United States SELL00132 2022-05-21 2022 5 May 21 7 Saturday 2 141
19 Returned Phoenix AZ United States SELL01907 2024-08-14 2024 8 Aug 14 4 wednesday 3 227
20 Delivered San Antonio TX Canada SELL01107 2023-02-08 2023 5 Mar 10 1 Sunday 2 131
21 Delivered Fort Worth TX United States SELL01947 2024-08-12 2024 8 Aug 12 2 Monday 3 225
22 Delivered Chicago IL Australia SELL01672 2023-08-25 2023 8 Aug 25 6 Friday 3 237
23 Delivered Phoenix AZ Canada SELL01102 2022-02-05 2022 2 Feb 8 3 Tuesday 1 39
24 Delivered Dallas TX United States SELL01507 2020-12-09 2020 12 Dec 9 4 wednesday 4 344
25 Delivered Jacksonville FL United States SELL01553 2024-02-24 2024 2 Feb 24 7 Saturday 1 55
26 Pending Columbus OH Canada SELL00342 2023-12-08 2023 12 Dec 8 6 Friday 4 342
27 Delivered San Francisco CA United States SELL01129 2022-03-16 2022 3 Mar 16 4 wednesday 1 75
28 Delivered San Antonio TX United Kingdom SELL01796 2021-01-20 2021 1 Jan 20 4 wednesday 1 20
29 Shipped Charlotte NC United Kingdom SELL01318 2023-10-03 2020 10 Oct 3 7 Saturday 4 277
30 Delivered Phoenix AZ United States SELL00874 2022-08-13 2022 8 Aug 13 7 Saturday 3 225
31 Delivered Charlotte NC United Kingdom SELL01318 2023-10-03 2020 10 Oct 3 7 Saturday 4 277
32 Shipped Houston TX India SELL00384 2023-03-30 2023 3 Mar 30 5 Thursday 1 89
33 Delivered Washington DC United States SELL01798 2021-04-04 2021 4 Apr 4 1 Sunday 2 94
34 Delivered Austin TX United States SELL00219 2023-08-30 2023 8 Aug 30 4 wednesday 3 242
[ reached 'max' / getoption("max.print") -- omitted 99966 rows ]
>
> current_time <- now()
> print(paste("Current Year:", year(current_time)))
[1] "Current Year: 2025"
> print(paste("Current Hour:", hour(current_time)))
[1] "Current Hour: 12"
> print(paste("Current Minute:", minute(current_time)))
[1] "Current Minute: 45"
>
```

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 ROLL NO : S085