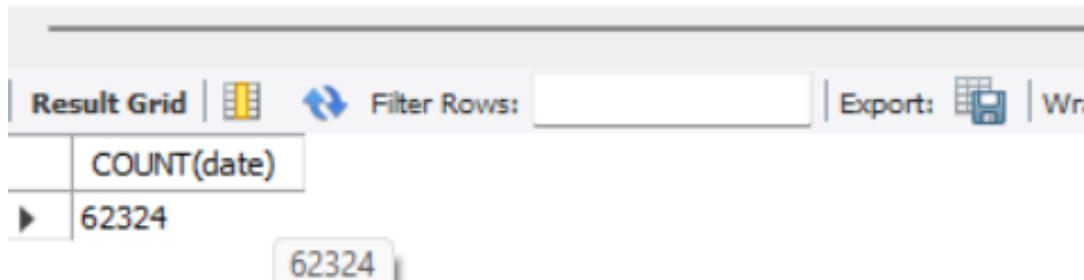


QUESTIONS:-

9.1 give the total number of recordings in this table

3 • `SELECT COUNT(date) FROM crane_logs;`



The screenshot shows a database interface with a toolbar at the top containing 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Co'. Below the toolbar is a table with one column labeled 'COUNT(date)' and one row containing the value '62324'.

COUNT(date)
62324

3 • `SELECT count(package) FROM crane_logs;`






The screenshot shows a database interface with a toolbar at the top containing 'Result Grid', 'Filter Rows', 'Export', and 'Wrap Cell Co'. Below the toolbar is a table with one column labeled 'count(package)' and one row containing the value '62324'.

count(package)
62324

9.2 the number of packages listed in this table?^

9.3 How many times the package "Rcpp" was downloaded?

```
3 • SELECT count(package) FROM crane_logs  
4 WHERE package = 'Rcpp';
```

Result Grid				Filter Rows:	Export:		V
	count(package)						
▶	867						

9.4 How many recordings are from China ("CN")?

```

1 • SELECT * FROM 112115001_aakarsh.crane_logs;
2 • SELECT count (country) FROM crane_logs
3 WHERE country ='CN';

```

Result Grid									
Filter Rows:									
Export:									
Wrap Cell Content:									
Fetch rows:									
date	time	size	r_version	r_arch	r_os	package	version	country	ip_id
2015-01-01	00:53:16	41721253	3.1.2	x86_64	darwin13.4.0	h2o	2.8.1.1	US	7
2015-01-01	00:52:54	103026	3.1.2	x86_64	darwin13.4.0	hash	2.2.6	GB	6
2015-01-01	00:52:55	371490	3.1.0	x86_64	mingw32	orderbook	1.03	GB	6
2015-01-01	00:53:14	7166	NA	NA	NA	rrBLUP	1.2	FR	8
2015-01-01	00:52:43	3097720	NA	NA	NA	plot3D	1.0-2	CN	9
2015-01-01	00:52:44	514	NA	NA	NA	plot3Drgl	1.0	CN	9
2015-01-01	00:52:47	194070	NA	NA	NA	plot3Drgl	1.0	CN	9
2015-01-01	00:52:48	514	NA	NA	NA	plotGoogle...	2.1	CN	9
2015-01-01	00:52:55	444571	NA	NA	NA	plotGoogle...	2.1	CN	9
2015-01-01	00:52:58	516	NA	NA	NA	plotKML	0.4-8	CN	9
2015-01-01	00:53:05	33878	3.1.2	x86_64	mingw32	manipulate	1.0.1	GB	6
2015-01-01	00:53:29	2680909	3.1.2	x86_64	mingw32	corrplot	0.73	US	1
2015-01-01	00:53:22	236263	3.1.2	x86_64	mingw32	NLP	0.1-5	US	10
2015-01-01	00:53:23	72391	3.1.1	x86_64	mingw32	arrayhelpers	0.76-20...	US	10
2015-01-01	00:53:23	34207	3.1.1	x86_64	mingw32	base64enc	0.1-2	US	10
2015-01-01	00:53:24	36540	3.1.1	x86_64	mingw32	bitops	1.0-6	US	10
2015-01-01	00:53:24	108306	3.1.1	x86_64	mingw32	chron	2.3-45	US	10
2015-01-01	00:53:25	384166	3.1.1	x86_64	mingw32	colorspace	1.2-4	US	10
2015-01-01	00:53:25	154353	3.1.2	x86_64	darwin13.4.0	DBI	0.3.1	US	10
2015-01-01	00:53:26	285233	3.1.1	x86_64	linux-gnu	devtools	1.6.1	US	10
2015-01-01	00:53:27	148214	3.1.1	x86_64	linux-gnu	dichromat	2.0-0	US	10
2015-01-01	00:53:27	150230	3.1.1	x86_64	linux-gnu	digest	0.6.7	US	10
2015-01-01	00:53:10	52298	3.1.2	x86_64	mingw32	quadprog	1.5-5	TW	11
2015-01-01	00:53:10	688745	3.1.2	x86_64	mingw32	BB	2014.10-1	TW	11
2015-01-01	00:53:11	768983	3.1.2	x86_64	mingw32	R.oo	1.18.0	TW	11

9.5 Give the package name and how many times they're downloaded. Order by the 2nd column descently.

```

1 • SELECT * FROM 112115001_aakarsh.crane_logs;
2 • SELECT package , count(package) FROM crane_logs
3   group by package
4   order by count(package) DESC;

```

Result Grid			Filter Rows:	Export:	Wrap Cell C
	package	count(package)			
▶	digest	1009			
	DBI	973			
	plyr	896			
	manipulate	877			
	Rcpp	867			
	ggplot2	817			
	RColorBrewer	746			
	reshape2	717			
	rJava	641			
	stringr	585			
	foreach	578			
	colorspace	573			
	httr	561			
	scales	544			
	labeling	525			
	iterators	519			
	RCurl	511			
	munsell	507			
	dichromat	492			
	zoo	482			
	proto	477			
	gtable	476			
	doSNOW	415			
	mime	406			
	rstudioapi	391			

9.6 Give the package ranking (based on how many times it was downloaded) during 9AM to 11AM

```

1 • SELECT * FROM 112115001_aakarsh.crane_logs;
2 • SELECT package , count(package) FROM crane_logs
3 WHERE time between '09:00:00' and '11:00:00'
4 group by package
5 order by count(package) DESC;

```

Result Grid			Filter Rows:	Export:	Wrap Cell
	package	count(package)			
▶	DBI	83			
	ggplot2	74			
	digest	73			
	reshape2	67			
	RColorBrewer	66			
	colorspace	61			
	plyr	61			
	Rcpp	59			
	scales	58			
	munsell	56			
	labeling	56			
	dichromat	55			
	manipulate	54			
	rJava	51			
	proto	50			
	gtable	50			
	foreach	45			
	rstudioapi	40			
	iterators	40			
	knitr	40			
	stringr	40			
	XML	38			
	RCurl	37			
	highr	37			
	markdown	37			
			

crane_logs 12

Result 13 x

9.7 How many recordings are from China (“CN”) or Japan(“JP”) or Singapore (“SG”)?

```
1 • SELECT * FROM 112115001_aakarsh.crane_logs;
2 • SELECT country , count(country) FROM crane_logs
3   WHERE country = 'CN' OR country = 'JP' OR country = 'SG'
4   group by country;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	country	count(country)			
▶	CN	6424			
	JP	1887			
	SG	481			

9.8 Print the countries whose downloaded are more than the downloads from China (“CN”)

```
1 • SELECT * FROM 112115001_aakarsh.crane_logs;
2 • set @local_var = (SELECT count(package) FROM crane_logs WHERE country = 'CN');
3 • CREATE TABLE temp as (SELECT country , count(package) AS C FROM crane_logs
4   WHERE country!= 'CN'
5   group by country);
6 • SELECT * FROM temp WHERE C>@local_var;
```

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	country	C			
▶	US	20113			
	FR	6504			

9.9 Print the average length of the package name of all the UNIQUE packages

```
1 • SELECT * FROM 112115001_aakarsh.crane_logs;
2 • CREATE TABLE New AS(SELECT Distinct package FROM crane_logs);
3 • SELECT avg(length(package)) FROM New;
```

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	avg(length(package))			
▶	7.4104			

9.10 Get the package whose downloading count ranks 2nd (print package name and it's download count).

```
36 • SELECT package, COUNT(*) as units
37 FROM Crane_Logs
38 GROUP BY package
39 ORDER BY units desc
40 limit 1 offset 1
41 ;
42
```

Result Grid		Filter Rows:	Export:	Wr
	package	units		
▶	DBI	973		



9.11 Print the name of the package whose download count is bigger than 1000.

```
1 • SELECT * FROM 112115001_aakarsh.crane_logs;
2 • CREATE TABLE temp1 AS (SELECT package , count(package) AS C FROM crane_logs group by package);
3 • SELECT * FROM temp1 WHERE C>1000;
```

Result Grid										
Filter Rows: <input type="text"/>										
Export: <input type="button" value=""/>										
Wrap Cell Content: <input type="button" value=""/>										
Fetch rows: <input type="button" value=""/>										
	date	time	size	r_version	r_arch	r_os	package	version	country	ip_id
▶	2015-01-01	00:52:44	161144	3.1.0	x86_64	mingw32	Formula	1.1-2	US	1
	2015-01-01	00:52:46	2063044	3.1.0	x86_64	mingw32	latticeExtra	0.6-26	US	1
	2015-01-01	00:52:47	69768	3.1.0	x86_64	mingw32	acepack	1.3-3.3	US	1
	2015-01-01	00:52:48	1567927	3.1.0	x86_64	mingw32	Hmisc	3.14-6	US	1
	2015-01-01	00:52:33	1582729	3.1.2	x86_64	linux-gnu	XML	3.98-1.1	US	2
	2015-01-01	00:52:44	9845	NA	NA	NA	SPSL	0.1-7	FR	3
	2015-01-01	00:52:39	14616	NA	NA	NA	igraph	0.7.1	CN	4
	2015-01-01	00:51:19	466175	3.1.2	x86_64	darwin13.4.0	animation	2.3	US	5
	2015-01-01	00:52:35	284237	3.1.2	x86_64	mingw32	som	0.3-5	GB	6
	2015-01-01	00:52:36	768436	3.1.2	x86_64	darwin13.4.0	kohonen	2.0.15	GB	6
	2015-01-01	00:53:16	41721253	3.1.2	x86_64	darwin13.4.0	h2o	2.8.1.1	US	7
	2015-01-01	00:52:54	103026	3.1.2	x86_64	darwin13.4.0	hash	2.2.6	GB	6
	2015-01-01	00:52:55	371490	3.1.0	x86_64	mingw32	orderbook	1.03	GB	6
	2015-01-01	00:53:14	7166	NA	NA	NA	rrBLUP	1.2	FR	8
	2015-01-01	00:52:43	3097720	NA	NA	NA	plot3D	1.0-2	CN	9
	2015-01-01	00:52:44	514	NA	NA	NA	plot3Drgl	1.0	CN	9

9.12 The field `r_os`; is the operating system of the users. Here we would like to know what main system we have (ignore version number), the relevant counts, and the proportion (in percentage).

```
1 • SELECT * FROM 112115001_aakarsh.crane_logs;
2 • SET @aakarsh = (SELECT count(r_os) FROM crane_logs WHERE r_os!='NA');
3 • SELECT r_os , count(r_os) , count(r_os)/@aakarsh * 100 FROM crane_logs
4 WHERE r_os!='NA'
5 group by r_os;
```

result Grid			
		Filter Rows:	Export:  Wrap Cell Content: 
r_os	count(r_os)	count(r_os)/@aakarsh * 100	
mingw32	28994	55.3891	
linux-gnu	15487	29.5858	
darwin13.4.0	3098	5.9183	
darwin13.1.0	1675	3.1999	
darwin10.8.0	2527	4.8275	
darwin9.8.0	292	0.5578	
darwin14.0.0	231	0.4413	
darwin13.2.0	2	0.0038	
darwin14.1.0	23	0.0439	
linux-gnueabi	5	0.0096	
darwin13.3.0	12	0.0229	