

2 rows in set (0.001 sec)

Course Code: CSL603	Course Name: DWM LAB
Class: TE-CO	Batch: 3
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Evr	agrimant 104
EXI	<u>periment :04</u>
Aim: To perform various OLAP operations such a	as slice, dice, drilldown, rollup, pivot
Output:	
Setting environment for using XAMPP for Windo	ws.
tp@DESKTOP-K5A8CTB e:\xampp	
# mysql -u root -p	
Enter password:	
Welcome to the MariaDB monitor. Commands	end with ; or \g.
Your MariaDB connection id is 108	
Server version: 10.4.18-MariaDB mariadb.org bin	nary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corpo	oration Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the	current input statement.
MariaDB [(none)]> use dwm;	
Database changed	
MariaDB [dwm]> show tables;	
++	
Tables_in_dwm	
++	
abc	
fact_sales	
++	



M	ariaDB [dwm]> se	elect * from fac	t_sales;
+-	+		+
i	d year month	product	sales_qty
+-	+	+	+
I	1 2015 1	hard disk	15000
1	2 2015 2	hard disk	9000
1	3 2015 3	hard disk	16000
1	4 2015 4	hard disk	1000
I	5 2015 5	hard disk	9690
I	6 2015 6	hard disk	7800
I	7 2015 7	hard disk	13000
I	8 2015 8	hard disk	9800
1	9 2015 9	hard disk	13000
1	10 2015 10	hard disk	12680
I	11 2015 11	hard disk	15690
1	12 2015 12	hard disk	14200
1	13 2016 1	hard disk	1200
1	14 2016 2	hard disk	12200
ı	15 2016 3	hard disk	1900
I	16 2016 4	hard disk	2500
ı	17 2016 5	hard disk	15000
I	18 2016 6	hard disk	11000
I	19 2016 7	hard disk	10890
ı	20 2016 8	hard disk	7300
ı	21 2016 9	hard disk	9560
I	22 2016 10	hard disk	10610
ı	23 2016 11	hard disk	19830
ı	24 2016 12	hard disk	5630
I	25 2017 1	hard disk	15302

| hard disk |

| hard disk |

| hard disk |

| 26 | 2017 | 2

| 27 | 2017 | 3

| 28 | 2017 | 4

13090 |

11890 |

18722 |



1	29 2017 5	hard disk	8780
I	30 2017 6	hard disk	9820
1	31 2017 7	hard disk	3400
1	32 2017 8	hard disk	3190
1	33 2017 9	hard disk	8800
1	34 2017 10	hard disk	12920
1	35 2017 11	hard disk	1920
1	36 2017 12	hard disk	13050
1	37 2018 1	hard disk	1090
1	38 2018 2	hard disk	2908
1	39 2018 3	hard disk	11800
1	40 2018 4	hard disk	13900
1	41 2018 5	hard disk	9900
1	42 2018 6	hard disk	8350
1	43 2018 7	hard disk	5650
1	44 2018 8	hard disk	4950
1	45 2018 9	hard disk	9670
1	46 2018 10	hard disk	8020
1	47 2018 11	hard disk	10290
1	48 2018 12	hard disk	12030
1	49 2015 1	keyboard	1230
1	50 2015 2	keyboard	3000
1	51 2015 3	keyboard	3400
1	52 2015 4	keyboard	6700
1	53 2015 5	keyboard	1790
1	54 2015 6	keyboard	12900
1	55 2015 7	keyboard	2980
1	56 2015 8	keyboard	10900
	57 2015 9	keyboard	9980
I	58 2015 10	keyboard	7880
	59 2015 11	keyboard	6890
	60 2015 12	keyboard	11890



ı	61 2016 1	keyboard	Ι	8090
ı	62 2016 2	keyboard		9010
	63 2016 3	keyboard		6570
	64 2016 4	keyboard		6100
1	65 2016 5	keyboard		7768
	66 2016 6	keyboard		1908
	67 2016 7	keyboard		11900
	68 2016 8	keyboard		8900
	69 2016 9	keyboard		8766
1	70 2016 10	keyboard	I	9878
	71 2016 11	keyboard	I	7800
1	72 2016 12	keyboard	1	9000
1	73 2017 1	keyboard		8000
1	74 2017 2	keyboard		10900
1	75 2017 3	keyboard		9870
	76 2017 4	keyboard		1770
	77 2017 5	keyboard		7170
1	78 2017 6	keyboard		9880
1	79 2017 7	keyboard		10880
1	80 2017 8	keyboard		10180
1	81 2017 9	keyboard		12000
1	82 2017 10	keyboard	1	10200
1	83 2017 11	keyboard	1	12350
1	84 2017 12	keyboard	1	11310
I	85 2018 1	keyboard		9289
I	86 2018 2	keyboard		9010
I	87 2018 3	keyboard		1920
I	88 2018 4	keyboard		11920
I	89 2018 5	keyboard		9080
	90 2018 6	keyboard		9000
I	91 2018 7	keyboard		8270
	92 2018 8	keyboard		4220



93 2018 9	keyboard		2230
94 2018 10	keyboard	I	6770
95 2018 11	keyboard	I	7879
96 2018 12	keyboard	I	8089
97 2015 1	monitor	I	7009
98 2015 2	monitor	I	8999
99 2015 3	monitor	I	8780
100 2015 4	monitor		1780
101 2015 5	monitor		1080
102 2015 6	monitor		2290
103 2015 7	monitor	I	8290
104 2015 8	monitor	I	7090
105 2015 9	monitor	I	8780
106 2015 10	monitor		6760
107 2015 11	monitor		3029
108 2015 12	monitor		6780
109 2016 1	monitor		2290
110 2016 2	monitor		8900
111 2016 3	monitor	I	7000
112 2016 4	monitor	I	2800
113 2016 5	monitor		8020
114 2016 6	monitor		7878
115 2016 7	monitor		9800
116 2016 8	monitor	1	8950
117 2016 9	monitor		1090
118 2016 10	monitor		3490
119 2016 11	monitor		13490
120 2016 12	monitor		12390
121 2017 1	monitor		9180
122 2017 2	monitor	I	8000
123 2017 3	monitor	I	7890
124 2017 4	monitor	I	3890



125 2017 5	monitor	1	2990
126 2017 6	monitor	I	6990
127 2017 7	monitor	ı	12000
128 2017 8	monitor	ı	11020
129 2017 9	monitor	ı	9800
130 2017 10	monitor	I	7800
131 2017 11	monitor	I	9878
132 2017 12	monitor	I	9800
133 2018 1	monitor	1	8700
134 2018 2	monitor	1	8670
135 2018 3	monitor	I	6770
136 2018 4	monitor	I	8790
137 2018 5	monitor	I	1980
138 2018 6	monitor	I	7789
139 2018 7	monitor	I	9880
140 2018 8	monitor	I	10890
141 2018 9	monitor	1	7677
142 2018 10	monitor	I	8700
143 2018 11	monitor	I	6750
144 2018 12	monitor	I	8700
145 2015 1	pendrive	1	18700
146 2015 2	pendrive	1	12900
147 2015 3	pendrive	1	19920
148 2015 4	pendrive	1	10190
149 2015 5	pendrive	1	11900
150 2015 6	pendrive	I	11800
151 2015 7	pendrive	I	18300
152 2015 8	pendrive	I	15670
153 2015 9	pendrive	I	12800
154 2015 10	pendrive	I	11900
155 2015 11	pendrive	I	12000
156 2015 12	pendrive	I	9010



157 2016 1	pendrive		13440
158 2016 2	pendrive		7040
159 2016 3	pendrive		16010
160 2016 4	pendrive	1	14500
161 2016 5	pendrive		12500
162 2016 6	pendrive		12920
163 2016 7	pendrive		11095
164 2016 8	pendrive		13080
165 2016 9	pendrive		12900
166 2016 10	pendrive	I	11200
167 2016 11	pendrive	I	12800
168 2016 12	pendrive	I	17800
169 2017 1	pendrive	1	19800
170 2017 2	pendrive		11900
171 2017 3	pendrive	1	9500
172 2017 4	pendrive		15000
173 2017 5	pendrive		17020
174 2017 6	pendrive		10220
175 2017 7	pendrive		11230
176 2017 8	pendrive		18050
177 2017 9	pendrive		12350
178 2017 10	pendrive	I	12350
179 2017 11	pendrive	I	10220
180 2017 12	pendrive	I	17620
181 2018 1	pendrive	1	16000
182 2018 2	pendrive	1	18720
183 2018 3	pendrive	1	12902
184 2018 4	pendrive	1	15020
185 2018 5	pendrive		17000
186 2018 6	pendrive		13900
187 2018 7	pendrive	1	12330
188 2018 8	pendrive		17800



189 2018 9	pendrive	1	15400
190 2018 10	pendrive	1	11200
191 2018 11	pendrive	I	11320
192 2018 12	pendrive	I	17320
193 2015 1	RAM	1	12210
194 2015 2	RAM	I	15000
195 2015 3	RAM	I	12900
196 2015 4	RAM	1	14390
197 2015 5	RAM	1	9390
198 2015 6	RAM	1	8990
199 2015 7	RAM	1	7820
200 2015 8	RAM	1	8010
201 2015 9	RAM	1	6980
202 2015 10	RAM	1	7677
203 2015 11	RAM	1	8090
204 2015 12	RAM	1	6700
217 2016 1	RAM	1	9700
218 2016 2	RAM	1	14700
219 2016 3	RAM	1	7900
220 2016 4	RAM	1	12000
221 2016 5	RAM	1	14050
222 2016 6	RAM	1	15600
223 2016 7	RAM	1	12600
224 2016 8	RAM	1	12800
225 2016 9	RAM	1	17890
226 2016 10	RAM	1	13490
227 2016 11	RAM	- 1	12335
228 2016 12	RAM	- 1	13500
229 2017 1	RAM	1	11800
230 2017 2	RAM	1	17300
231 2017 3	RAM	1	15690
232 2017 4	RAM		5700



233 2017 5	RAM	1	9080
234 2017 6	RAM	1	11800
235 2017 7	RAM	1	12380
236 2017 8	RAM	1	13220
237 2017 9	RAM	1	5320
238 2017 10	RAM	1	7000
239 2017 11	RAM	1	4890
240 2017 12	RAM	[6600
241 2018 1	RAM	1	5600
242 2018 2	RAM	1	8090
243 2018 3	RAM	1	8690
244 2018 4	RAM	1	3400
245 2018 5	RAM	1	2720
246 2018 6	RAM	1	5069
247 2018 7	RAM	1	7870
248 2018 8	RAM	1	9800
249 2018 9	RAM	1	6500
250 2018 10	RAM	1	8800
251 2018 11	RAM	1	10900
252 2018 12	RAM	1	12890

240 rows in set (0.001 sec)



1. Slicing Operation:

MariaDB [dwm]> select * from fact_sales where product='pendrive';			
+++ id year month product sales_qty			
++ 145 2015 1			
146 2015 2			
147 2015 3			
148 2015 4			
149 2015 5			
150 2015 6			
151 2015 7			
152 2015 8		·	
153 2015 9			
154 2015 10			
155 2015 11	pendrive	12000	
156 2015 12	pendrive	9010	
157 2016 1	pendrive	13440	
158 2016 2	pendrive	7040	
159 2016 3	pendrive	16010	
160 2016 4	pendrive	14500	
161 2016 5	pendrive	12500	
162 2016 6	pendrive	12920	
163 2016 7	pendrive	11095	
164 2016 8	pendrive	13080	
165 2016 9	pendrive	12900	
166 2016 10	pendrive	11200	
167 2016 11	pendrive	12800	
168 2016 12	pendrive	17800	
169 2017 1	pendrive	19800	
170 2017 2	pendrive	11900	



171 2017 3	pendrive	9500
172 2017 4	pendrive	15000
173 2017 5	pendrive	17020
174 2017 6	pendrive	10220
175 2017 7	pendrive	11230
176 2017 8	pendrive	18050
177 2017 9	pendrive	12350
178 2017 10	pendrive	12350
179 2017 11	pendrive	10220
180 2017 12	pendrive	17620
181 2018 1	pendrive	16000
182 2018 2	pendrive	18720
183 2018 3	pendrive	12902
184 2018 4	pendrive	15020
185 2018 5	pendrive	17000
186 2018 6	pendrive	13900
187 2018 7	pendrive	12330
188 2018 8	pendrive	17800
189 2018 9	pendrive	15400
190 2018 10	pendrive	11200
191 2018 11	pendrive	11320
192 2018 12	pendrive	17320

48 rows in set (0.001 sec)



MariaDB [dwm]> select sum(sales_qty) from fact_sales where year=2015;
++
sum(sales_qty)
++
570314
++
1 row in set (0.001 sec)



2. Dice Operation:

MariaDB [dwm]> select * from fact_sales where product='pendrive' and year='2015';				
++				
id year month product sales_qty				
++				
145 2015 1	pendrive	18700		
146 2015 2	pendrive	12900		
147 2015 3	pendrive	19920		
148 2015 4	pendrive	10190		
149 2015 5	pendrive	11900		
150 2015 6	pendrive	11800		
151 2015 7	pendrive	18300		
152 2015 8	pendrive	15670		
153 2015 9	pendrive	12800		
154 2015 10	pendrive	11900		
155 2015 11	pendrive	12000		
156 2015 12	pendrive	9010		
++				

12 rows in set (0.001 sec)



3. Rollup Operation:

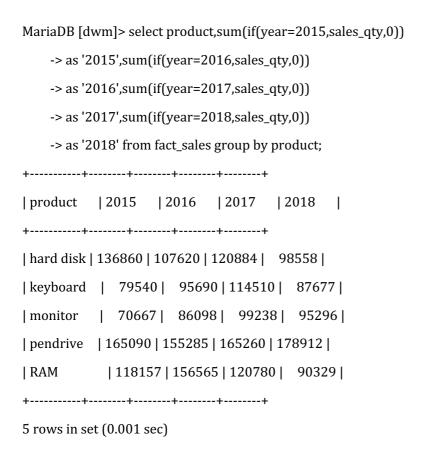
MariaDB [dwm	1]> select product, sum(sales_qty) from fact_sales group by product;
+	·+
product s	rum(sales_qty)
+	+
hard disk	463922
keyboard	377417
monitor	351299
pendrive	664547
RAM	485831
+	+
5 rows in set (0	0.001 sec)
MariaDR [dwm	n]> select year, sum(sales_qty) from fact_sales group by year with rollup;
++	
year sum(sa	les_qty)
+	+
2015	570314
2016	601258
2017	620672
2018	550772
NULL	2343016
+	+
5 rows in set (0	0.001 sec)



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4. Pivot Operation:





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5. Drilldown Operation:

