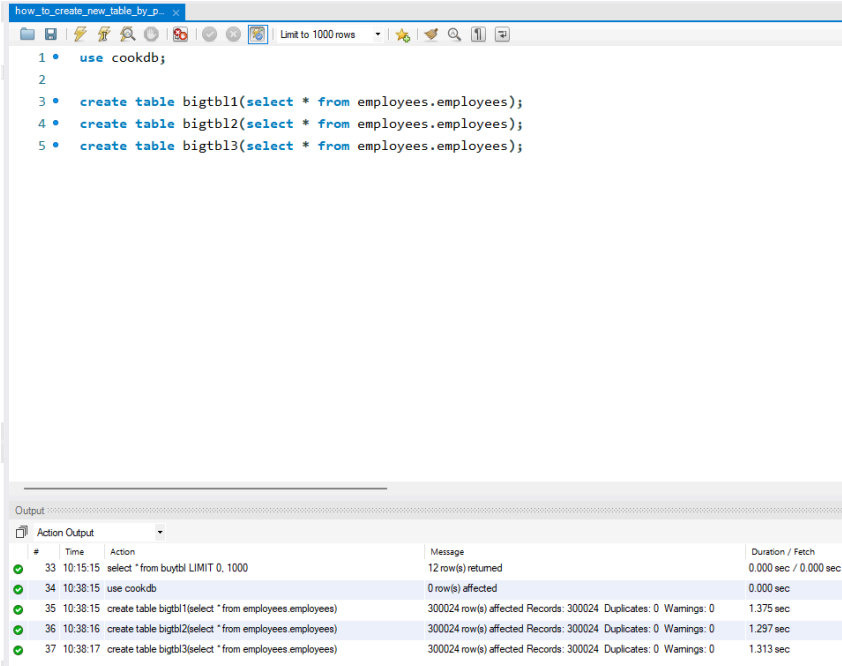


# 데이터 베이스 실습 6\_200194 정동진

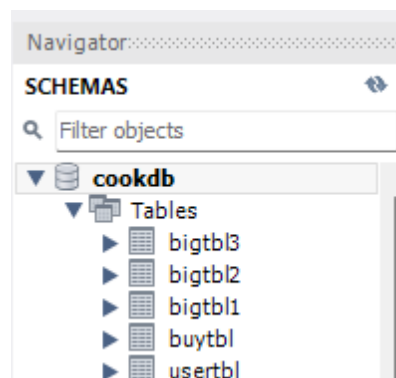
200194 정동진

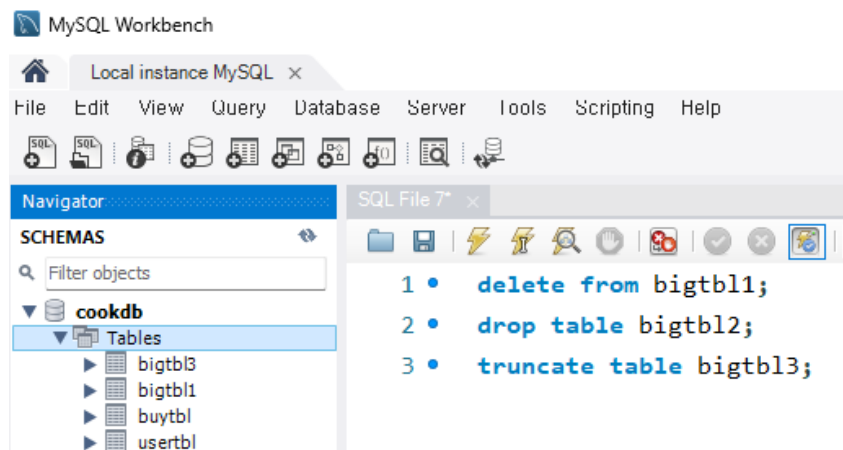
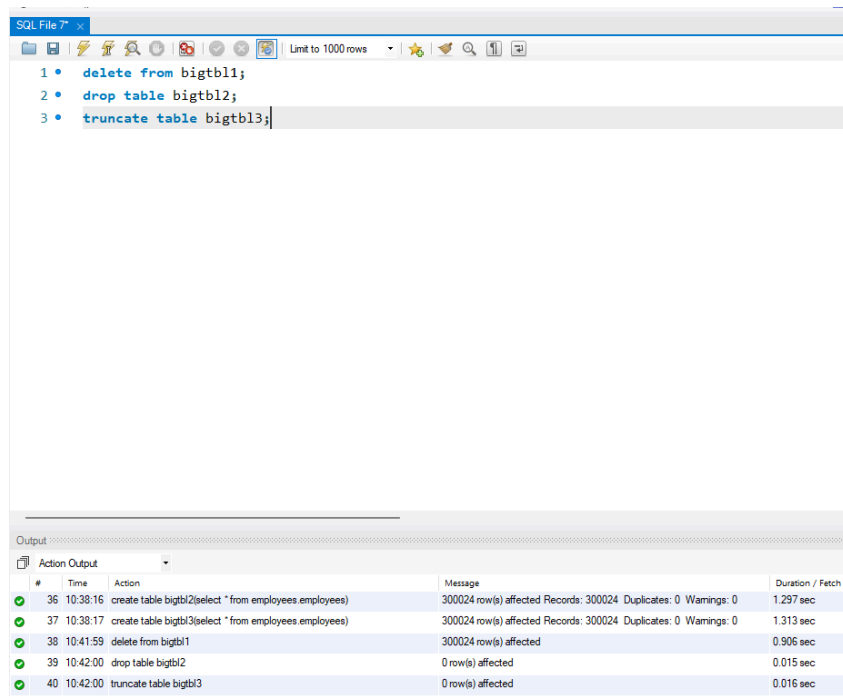
실습 6-1.

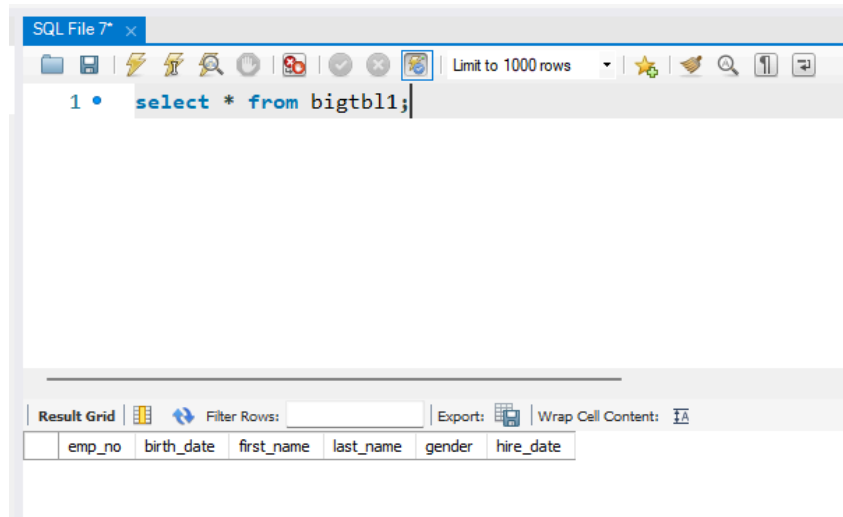


```
1 • use cookdb;
2
3 • create table bigtbl1(select * from employees.employees);
4 • create table bigtbl2(select * from employees.employees);
5 • create table bigtbl3(select * from employees.employees);
```

#	Time	Action	Message	Duration / Fetch
33	10:15:15	select * from buytbl LIMIT 0, 1000	12 row(s) returned	0.000 sec / 0.000 sec
34	10:38:15	use cookdb	0 row(s) affected	0.000 sec
35	10:38:15	create table bigtbl1(select * from employees.employees)	300024 row(s) affected Records: 300024 Duplicates: 0 Warnings: 0	1.375 sec
36	10:38:16	create table bigtbl2(select * from employees.employees)	300024 row(s) affected Records: 300024 Duplicates: 0 Warnings: 0	1.297 sec
37	10:38:17	create table bigtbl3(select * from employees.employees)	300024 row(s) affected Records: 300024 Duplicates: 0 Warnings: 0	1.313 sec







## 실습 6-2

SQL File 7\* x

Limit to 1000 rows

```
1 use cookdb;
2 • create table membertbl( select userid, username, addr from usertbl limit 3);
3 • alter table membertbl
4     add constraint pk_membertbl primary key (userid);
5 • select * from membertbl;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: IA

	userid	username	addr
▶	KHD	강호돌	경북
	KJD	김제돌	경남
	KKJ	김국진	서울
*	NULL	NULL	NULL

memberof 2 x Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
41	10:43:00	select * from bigtbl1 LIMIT 0, 1000	0 row(s) returned	0.000 sec / 0.000 sec
42	10:47:51	use cookdb	0 row(s) affected	0.000 sec
43	10:47:51	create table membertbl( select userid, username, addr from usertbl limit 3)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec
44	10:47:51	alter table membertbl add constraint pk_membertbl primary key (userid)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
45	10:47:51	select * from membertbl LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec

SQL File 8\*

Limit to 1000 rows

```

1 • insert into membertbl values('KHD','강후달','미국');
2 • insert into membertbl values('LSM','이상민','서울');
3 • insert into membertbl values('KSJ','김성주','경기');

```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 42	10:47:51	use cookdb	0 row(s) affected	0.000 sec
✓ 43	10:47:51	create table membertbl( select userid, username, addr from usertbl limit 3)	3 row(s) affected Records: 3 Duplicates: 0 Warnings: 0	0.016 sec
✓ 44	10:47:51	alter table membertbl add constraint pk_membertbl primary key (userid)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	0.047 sec
✓ 45	10:47:51	select * from membertbl LIMIT 0, 1000	3 row(s) returned	0.000 sec / 0.000 sec
✗ 46	10:51:46	insert into membertbl values('KHD','강후달','미국')	Error Code: 1062. Duplicate entry 'KHD' for key 'membertbl.PRIMARY'	0.016 sec

SQL File 8"

Limit to 1000 rows

```

1 • insert IGNORE into membertbl values('KHD','강후열','미국');
2 • insert IGNORE into membertbl values('LSM','이상민','서울');
3 • insert IGNORE into membertbl values('KSJ','김성주','경기');
4
5 • select * from membertbl;

```

Result Grid

	userid	username	addr
▶	KHD	강후열	경북
	KJD	김제동	경남
	KKJ	김국진	서울
	KSJ	김성주	경기
	LSM	이상민	서울
*	NULL	NULL	NULL

memberbl 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
46	10:51:46	insert into membertbl values('KHD','강후열','미국')	Error Code: 1062. Duplicate entry 'KHD' for key 'membertbl.PRIMARY'	0.016 sec
47	10:53:10	insert IGNORE into membertbl values('KHD','강후열','미국')	0 row(s) affected, 1 warning(s): 1062 Duplicate entry 'KHD' for key 'memb...	0.000 sec
48	10:53:10	insert IGNORE into membertbl values('LSM','이상민','서울')	1 row(s) affected	0.016 sec
49	10:53:10	insert IGNORE into membertbl values('KSJ','김성주','경기')	1 row(s) affected	0.000 sec
50	10:53:10	select * from membertbl LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec

if\_duplicated\_primary\_key\_havi...

```

1 • insert into membertbl values('KHD','강후달','미국')
2   on duplicate key update username='강후달', addr='미국';
3
4 • insert into membertbl values('DJM','동짜물','일본')
5   on duplicate key update username='동짜물', addr='일본';
6
7 • select * from membertbl;

```

Result Grid

	userid	username	addr
▶	DJM	동짜물	일본
	KHD	강후달	미국
	KJD	김제동	경남
	KKJ	김국진	서울
	KSJ	김성주	경기
	LSM	이상민	서울
*	NULL	NULL	NULL

memberoftbl 1 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 49	10:53:10	insert IGNORE into membertbl values('KSJ','김성주','경기')	1 row(s) affected	0.000 sec
✓ 50	10:53:10	select * from membertbl LIMIT 0, 1000	5 row(s) returned	0.000 sec / 0.000 sec
✓ 51	10:58:15	insert into membertbl values('KHD','강후달','미국') on duplicate key updat...	2 row(s) affected	0.016 sec
✓ 52	10:58:15	insert into membertbl values('DJM','동짜물','일본') on duplicate key updat...	1 row(s) affected	0.000 sec
✓ 53	10:58:15	select * from membertbl LIMIT 0, 1000	6 row(s) returned	0.000 sec / 0.000 sec

실습 6-3.

SQL File 11\* x

Limit to 1000 rows

```

1 • use cookdb;
2 • select row_number() over(order by height DESC) "키 큰 순위", username, addr, height
3   from usertbl;

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: |

키 큰 순위	username	addr	height
1	박수홍	서울	183
2	강호동	경북	182
3	이회재	경기	180
4	남희석	충남	180
5	유재석	서울	178
6	김용만	서울	177
7	신동엽	경기	176
8	김재동	경남	173
9	김국진	서울	171
10	이경규	경남	170

Result 1 x | Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
78	11:01:32	insert into buytbl values(NULL,'PSH','운동화',NULL,30,2)	1 row(s) affected	0.000 sec
79	11:01:32	insert into buytbl values(NULL,'LHJ','책','서적',15,1)	1 row(s) affected	0.000 sec
80	11:01:32	insert into buytbl values(NULL,'PSH','운동화',NULL,30,2)	1 row(s) affected	0.000 sec
81	11:04:48	use cookdb	0 row(s) affected	0.000 sec
82	11:04:48	select row_number() over(order by height DESC) "키 큰 순위", username,...	10 row(s) returned	0.016 sec / 0.000 sec

how\_to\_select\_then\_show\_user... x

Limit to 1000 rows

```

1 • select row_number() over(order by height desc, username asc) "키큰순위",username, addr, height
2   from usertbl;

```

Result Grid

	키 큰 순위	userName	addr	height
▶	1	박수홍	서울	183
	2	강호동	경북	182
	3	남희석	충남	180
	4	이희재	경기	180
	5	유재석	서울	178
	6	김용만	서울	177
	7	신동엽	경기	176
	8	김재동	경남	173
	9	김국진	서울	171
	10	이경규	경남	170

Result 1 x Read Only

Output

#	Time	Action	Message	Duration / Fetch
79	11:01:32	insert into buytbl values(NULL,'LHJ','책',15,1)	1 row(s) affected	0.000 sec
80	11:01:32	insert into buytbl values(NULL,'PSH','운동화',NULL,30,2)	1 row(s) affected	0.000 sec
81	11:04:48	use cookdb	0 row(s) affected	0.000 sec
82	11:04:48	select row_number() over(order by height DESC) "키 큰 순위", username,...	10 row(s) returned	0.016 sec / 0.000 sec
83	11:07:56	select row_number() over(order by height desc, username asc) "키큰순위"	10 row(s) returned	0.000 sec / 0.000 sec

#Desktop#1학기#데이터 베이스 시스템#실습 쿼리문#how to select then show username rows in its order as 가나다순.sql



SQL File 13" x

Limit to 1000 rows

```

1 • select addr, row_number() over(partition by addr order by height desc, username asc)
2   "지역별키큰순위", username, height
3   from usertbl;

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: |

	addr	지역별키큰 순위	username	height
▶	경기	1	이희재	180
	경기	2	신동엽	176
	경남	1	김재동	173
	경남	2	이경규	170
	경북	1	강호동	182
	서울	1	박수홍	183
	서울	2	유재석	178
	서울	3	김용만	177
	서울	4	김국진	171
	충남	1	남희석	180

Result 1 x | Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
80	11:01:32	insert into buytbl values(NULL,'PSH','운동화',NULL,30,2)	1 row(s) affected	0.000 sec
81	11:04:48	use cookdb	0 row(s) affected	0.000 sec
82	11:04:48	select row_number() over(order by height DESC) "키 큰 순위", username,...	10 row(s) returned	0.016 sec / 0.000 sec
83	11:07:56	select row_number() over(order by height desc, username asc) "키큰순위..."	10 row(s) returned	0.000 sec / 0.000 sec
84	11:11:17	select addr, row_number() over(partition by addr order by height desc, use...	10 row(s) returned	0.000 sec / 0.000 sec

SQL File 13\*

Limit to 1000 rows

```

1 • select dense_rank() over(order by height desc) "키 큰 순위", username, addr, height
2   from usertbl;

```

Result Grid

	키 큰 순위	username	addr	height
▶ 1		박수홍	서울	183
2		강호동	경북	182
3		이휘재	경기	180
3		남희석	충남	180
4		유재석	서울	178
5		김용만	서울	177
6		신동엽	경기	176
7		김제동	경남	173
8		김국진	서울	171
9		이정규	경남	170

Result 2 × Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
81	11:04:48	use cookdb	0 row(s) affected	0.000 sec
82	11:04:48	select row_number() over(order by height DESC) "키 큰 순위", username,...	10 row(s) returned	0.016 sec / 0.000 sec
83	11:07:56	select row_number() over(order by height desc, username asc) "키 큰 순위,...	10 row(s) returned	0.000 sec / 0.000 sec
84	11:11:17	select addr, row_number() over(partition by addr order by height desc, use...	10 row(s) returned	0.000 sec / 0.000 sec
85	11:12:18	select dense_rank() over(order by height desc) "키 큰 순위", username, ad...	10 row(s) returned	0.000 sec / 0.000 sec

SQL File 13\*

Limit to 1000 rows

```

1 • select rank() over(order by height desc) "키큰순위", username, addr,height
2   from usertbl;

```

Result Grid

	키큰 순위	username	addr	height
▶ 1		박수훈	서울	183
2		강호돌	경북	182
3		이희재	경기	180
3		남희석	충남	180
5		유재석	서울	178
6		김용만	서울	177
7		신동엽	경기	176
8		김재동	경남	173
9		김국진	서울	171
10		이경규	경남	170

Result 3 × Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
82	11:04:48	select row_number() over(order by height DESC) "키 큰 순위", username,...	10 row(s) returned	0.016 sec / 0.000 sec
83	11:07:56	select row_number() over(order by height desc, username asc) "키큰순위...	10 row(s) returned	0.000 sec / 0.000 sec
84	11:11:17	select addr, row_number() over(partition by addr order by height desc, use...	10 row(s) returned	0.000 sec / 0.000 sec
85	11:12:18	select dense_rank() over(order by height desc) "키큰순위", username, ad...	10 row(s) returned	0.000 sec / 0.000 sec
86	11:13:12	select rank() over(order by height desc) "키큰순위", username, addr,heig...	10 row(s) returned	0.000 sec / 0.000 sec

SQL File 13\* x

Limit to 1000 rows

```

1 • select ntile(2) over(order by height desc) "반번호", username, addr,height
2   from usertbl;

```

Result Grid

반번호	username	addr	height
1	박수준	서울	183
1	강호동	경북	182
1	이휘재	경기	180
1	남희석	충남	180
1	유재석	서울	178
2	김용만	서울	177
2	신동엽	경기	176
2	김제동	경남	173
2	김국진	서울	171
2	이경규	경남	170

Result 4 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
83	11:07:56	select row_number() over(order by height desc, username asc) "키큰순위..."	10 row(s) returned	0.000 sec / 0.000 sec
84	11:11:17	select addr, row_number() over(partition by addr order by height desc, use...	10 row(s) returned	0.000 sec / 0.000 sec
85	11:12:18	select dense_rank() over(order by height desc) "키큰순위", username, ad...	10 row(s) returned	0.000 sec / 0.000 sec
86	11:13:12	select rank() over(order by height desc) "키큰순위", username, addr,heig...	10 row(s) returned	0.000 sec / 0.000 sec
87	11:14:12	select ntile(2) over(order by height desc) "반번호", username, addr,height...	10 row(s) returned	0.000 sec / 0.000 sec

SQL File 13\*

```

1 • select ntile(4) over(order by height desc) "반번호", username, addr, height
2   from usertbl;

```

Result Grid

	반번호	username	addr	height
▶ 1	박수홍	서울	183	
1	강호동	경북	182	
1	이회재	경기	180	
2	남희석	충남	180	
2	유재석	서울	178	
2	김용만	서울	177	
3	신동엽	경기	176	
3	김제동	경남	173	
4	김국진	서울	171	
4	이경규	경남	170	

Result 5 ×

Output

#	Time	Action	Message	Duration / Fetch
86	11:13:12	select rank() over(order by height desc) "키순위", username, addr, height...	10 row(s) returned	0.000 sec / 0.000 sec
87	11:14:12	select ntile(2) over(order by height desc) "반번호", username, addr, height...	10 row(s) returned	0.000 sec / 0.000 sec
88	11:15:05	select ntile(4) over(order by height desc) "반번호", username, addr, height...	Error Code: 1146. Table 'cookdb.usertbl' doesn't exist	0.000 sec
89	11:15:11	select ntile(4) over(order by height desc) "반번호", username, addr, height...	Error Code: 1146. Table 'cookdb.usertbl' doesn't exist	0.000 sec
90	11:15:21	select ntile(4) over(order by height desc) "반번호", username, addr, height...	10 row(s) returned	0.000 sec / 0.000 sec

## 실습 6-4\_

```

SQL File 13*
Limit to 1000 rows

1 use cookdb;
2 • select username, addr, height AS "키",
3     height - (LEAD(height,1,0) over (order by height desc)) as "다음 사람과 키 차이"
4 from usertbl;

```

Result Grid

username	addr	키	다음 사람과 키 차이
박수홍	서울	183	1
강호동	경북	182	2
이희재	경기	180	0
남희석	충남	180	2
유재석	서울	178	1
김용만	서울	177	1
신동엽	경기	176	3
김제동	경남	173	2
김국진	서울	171	1
이경규	경남	170	170

Result 6 × Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
91	11:17:08	use cookdb	Error Code: 1049. Unknown database 'cookdb'	0.015 sec
92	11:17:15	use cookdb	0 row(s) affected	0.000 sec
93	11:17:15	select username, addr, height AS "키", height - (LEAD(height,1,0) over (o...	Error Code: 1064. You have an error in your SQL syntax; check the manu...	0.000 sec
94	11:17:40	use cookdb	0 row(s) affected	0.000 sec
95	11:17:40	select username, addr, height AS "키", height - (LEAD(height,1,0) over (o...	10 row(s) returned	0.016 sec / 0.000 sec

SQL File 13\*

Limit to 1000 rows

```

1 • select addr, username,height AS "키",
2       height - (FIRST_VALUE(height) over (partition by addr order by height desc))
3       as "지역별 최대키와 차이"
4 from usertbl;

```

Result Grid

	addr	username	키	지역별 최대키와 차이
▶	경기	이희재	180	0
	경기	신동엽	176	-4
	경남	김재동	173	0
	경남	이경규	170	-3
	경북	강호동	182	0
	서울	박수홍	183	0
	서울	유재석	178	-5
	서울	김용만	177	-6
	서울	김국진	171	-12
	충남	남희석	180	0

Result 7 ×

Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
92	11:17:15	use cookdb	0 row(s) affected	0.000 sec
93	11:17:15	select username, addr, height AS "키", height - (LEAD(height,1,0) over (o...	Error Code: 1064. You have an error in your SQL syntax; check the manu...	0.000 sec
94	11:17:40	use cookdb	0 row(s) affected	0.000 sec
95	11:17:40	select username, addr, height AS "키", height - (LEAD(height,1,0) over (o...	10 row(s) returned	0.016 sec / 0.000 sec
96	11:19:23	select addr, username,height AS "키", height - (FIRST_VALUE(height) ov...	10 row(s) returned	0.000 sec / 0.000 sec

SQL File 13\*

```

1 select addr, userName, height as "키",
2     (CUME_DIST() over (partition by addr order by height desc))*100 AS "누적인원 백분율%"
3 from usertbl;

```

Result Grid | Filter Rows: | Exports: | Wrap Cell Content: |

	addr	userName	키	누적인원 백분율%
▶	경기	이희재	180	50
	경기	신동엽	176	100
	경남	김재웅	173	50
	경남	이정규	170	100
	경북	강호동	182	100
	서울	박수홍	183	25
	서울	유재석	178	50
	서울	김용만	177	75
	서울	김국진	171	100
	충남	남희석	180	100

Result 8 x | Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
93	11:17:15	select username, addr, height AS "키", height - (LEAD(height,1,0) over (o...	Error Code: 1064. You have an error in your SQL syntax; check the manu...	0.000 sec
94	11:17:40	use cookdb	0 row(s) affected	0.000 sec
95	11:17:40	select username, addr, height AS "키", height - (LEAD(height,1,0) over (o...	10 row(s) returned	0.016 sec / 0.000 sec
96	11:19:23	select addr, username,height AS "키", height - (FIRST_VALUE(height) ov...	10 row(s) returned	0.000 sec / 0.000 sec
97	11:20:56	select addr, userName, height as "키", (CUME_DIST() over (partition by a...	10 row(s) returned	0.015 sec / 0.000 sec

## 실습 6-5\_



SQL File 13\*

```

1 • use cookdb;
2 • create table pivottest
3 • (  username char(3),
4 •     season char(2),
5 •     amount INT
6 • );

```

Output

#	Time	Action	Message	Duration / Fetch
95	11:17:40	select username, addr, height AS "키", height - (LEAD(height,1,0) over (o...	10 row(s) returned	0.016 sec / 0.000 sec
96	11:19:23	select addr, username,height AS "키", height - (FIRST_VALUE(height) ov...	10 row(s) returned	0.000 sec / 0.000 sec
97	11:20:56	select addr, userName, height as "키", (CUME_DIST() over (partition by a...	10 row(s) returned	0.015 sec / 0.000 sec
98	11:21:58	use cookdb	0 row(s) affected	0.000 sec
99	11:21:58	create table pivottest (username char(3), season char(2), amount INT )	0 row(s) affected	0.031 sec

SQL File 13\*

```

1 insert into pivotTest values ('유재석','겨울',10);
2 insert into pivotTest values ('강호동','여름',15);
3 insert into pivotTest values ('유재석','가을',25);
4 insert into pivotTest values ('유재석','봄',3);
5 insert into pivotTest values ('유재석','봄',37);
6 insert into pivotTest values ('강호동','겨울',40);
7 insert into pivotTest values ('유재석','여름',14);
8 insert into pivotTest values ('유재석','겨울',22);

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: |

uname	season	amount
유재석	겨울	10
강호동	여름	15
유재석	가을	25
유재석	봄	3
유재석	봄	37
강호동	겨울	40
유재석	여름	14
유재석	겨울	22
강호동	여름	64

Result Grid  
Form Editor  
Field Types

pivottest9 x | Read Only

Output

Action Output

#	Time	Action	Message	Duration / Fetch
105	11:25:20	insert into pivotTest values ('강호동','겨울',40)	1 row(s) affected	0.016 sec
106	11:25:20	insert into pivotTest values ('유재석','여름',14)	1 row(s) affected	0.000 sec
107	11:25:20	insert into pivotTest values ('유재석','겨울',22)	1 row(s) affected	0.000 sec
108	11:25:20	insert into pivotTest values ('강호동','여름',64)	1 row(s) affected	0.000 sec
109	11:25:20	select * from pivottest LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

SQL File 13\*

Limit to 1000 rows

```

1  select uname,
2      sum(case when season='봄' then amount end) as '봄',
3      sum(case when season='여름' then amount end) as '여름',
4      sum(case when season='가을' then amount end) as '가을',
5      sum(case when season='겨울' then amount end) as '겨울'
6  from pivottest
7  group by uname;

```

Result Grid

	uname	봄	여름	가을	겨울
▶	유재석	40	14	25	32
	강호동	100%	79	100%	40

Result 10 x

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 106	11:25:20	insert into pivotTest values ('유재석','여름',14)	1 row(s) affected	0.000 sec
✓ 107	11:25:20	insert into pivotTest values ('유재석','겨울',22)	1 row(s) affected	0.000 sec
✓ 108	11:25:20	insert into pivotTest values ('강호동','여름',64)	1 row(s) affected	0.000 sec
✓ 109	11:25:20	select * from pivottest LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec
✓ 110	11:26:50	select uname, sum(case when season='봄' then amount end) as '봄', s...	2 row(s) returned	0.000 sec / 0.000 sec