

Prepared statement allocation centers

Two main allocation centers:

* statement arena



* runtime arena



Initialization:

```
stmt->state= INITIALIZED;
```

```
thd->stmt_arena= stmt;
```

```
thd->mem_root= stmt;
```

Parsing

Semantic analysis:

```
thd->stmt_arena= stmt;
```

```
thd->mem_root= thd->main_mem_root;
```

Semantic Analysis

```
thd->activate_stmt_arena_if_needed(); // sets thd->mem_root= thd->stmt_arena->mem_root;
```

```
thd->restore_backup_stmt_arena(); // sets thd->mem_root= thd->main_mem_root;
```

Continued...

```
stmt->state= PREPARED;
```

First execution:

```
thd->stmt_arena= stmt;
```

```
thd->mem_root= thd->main_mem_root;
```

First execution

```
thd->activate_stmt_arena_if_needed(); // sets thd->mem_root= thd->stmt_arena->mem_root;
```

```
thd->restore_backup_stmt_arena(); // sets thd->mem_root= thd->main_mem_root;
```

Continued...

```
stmt->state= Query_arena::EXECUTED;
```

Subsequent executions:

```
thd->stmt_arena= stmt;
```

```
thd->mem_root= thd->main_mem_root;
```

Subsequent executions