

\$o : object                      \$n: number  
\$f: field name (string)        \$oc: object or classname  
\$fo: field object               \$db: y\_database object  
(string or y\_op\_field)        \$yop: y\_op object  
\$q: y\_query object              \$oa: object array  
\$v: value of field for comparison   \$c: class name

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```
$db = new y_db($config);  
$config['y_db_name'] = 'thing_-_thing.com';  
$config['y_db_host'] = 'thing.com'; // opt  
$config['y_db_user'] = 'whoever';  
$config['y_db_password'] = 'whatever';  
$config['y_db_log'] = 'folder'; // opt  
$config['y_db_prefix'] = 'whatever_'; // opt  
$config['y_db_no_locks'] = TRUE; // opt  
$config['y_db_debug'] = TRUE; // opt
```

```
$db->lock();
```

```
$db->select($o, ...);  
// $o can be array of same
```

```
$n = $db->info($oc, $yop);
```

```
$n = $db->delete($o, $f,... );  
// $f can be array of same
```

```
$n = $db->update($o, $f,...);  
// ditto
```

```
$n = $db->insert($o);
```

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```
$q = $db->query(); or $q = $db->query($owrt);
```

```
$q->where($yop);
```

```
$q->ascending($fo, ...); // $fo can be array of same  
$q->descending($fo, ...); // ditto
```

```
$q->limit($count [, $start]);  
$q->distinct([$fo]); // $fo can be array of same
```

```
$info = $q->info($oc, $yop);
```

```
$q->groupby($fop, ...);  
/* $fop is a mixture of field names and operators,  
or array of same; $groupby needs a subsequent select */
```

```
$remaining = $q->select($o, ...);  
/* or array of same; $o can also be result of  
y_op::<whatever>join */
```

```
$n = $q->delete($oc, [$f, ...]); // or array of $f  
$n = $q->update($o, $key [, ...]);  
// or array of $f, at least one $f mandatory  
$n = $q->insert($o, ...);  
// or array of objects;  
// common classes and fields optimized
```

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```
$yop = y_op::eq($fo, $v, ...); // or array of values  
$yop = y_op::ne($fo, $v, ...); // ditto  
$yop = y_op::lt($fo, $v);  
$yop = y_op::le($fo, $v);  
$yop = y_op::gt($fo, $v);  
$yop = y_op::ge($fo, $v);  
$yop = y_op::isnull($fo);  
$yop = y_op::isntnull($fo);  
$yop = y_op::between($fo, $v1, $v2);
```

```
$yop = y_op::aand($yop1, $yop2, ...);  
// or array of same  
$yop = y_op::oor($yop1, $yop2, ...);  
// or array of same  
$yop = y_op::not($yop);
```

```
$yop = y_op::max($fo);  
$yop = y_op::min($fo);  
$yop = y_op::average($fo);  
$yop = y_op::standard_deviation($fo);  
$yop = y_op::sum($fo);  
$yop = y_op::count_distinct($fo);  
$yop = y_op::count([$fo]);
```

```
$yop = y_op::feq($fo1, $fo2); // comparison of fields  
$yop = y_op::fne($fo1, $fo2);  
$yop = y_op::flt($fo1, $fo2);  
$yop = y_op::fle($fo1, $fo2);  
$yop = y_op::fgt($fo1, $fo2);  
$yop = y_op::fge($fo1, $fo2);
```

```
$yop = y_op_field::field($f [, $n]);  
// use $n to disambiguate fields in a join
```

```
$yop = y_op::leftjoin($yop);  
$yop = y_op::rightjoin($yop);  
$yop = y_op::innerjoin($yop);  
// for more complex conditions than field equality  
// applies to preceding and subsequent objects
```

---

```
class ... {  
    function y_table() {  
        return 'tablename'; /* including any prefix */ }  
    /* default same name excluding any prefix */  
  
    function y_fields() {  
        return array($f=>$c, ...); } }  
    /* default same names in class and table */  
  
    function y_xrefs($c) {  
        return array($fme=>$ffit, ...); } }  
    /* explicit mapping of field fme etc of class  
    call in to fit etc of class classname,  
    default foo -> classname_foo */  
}
```