



Content Entity Entity Query

ENTITY, NODE, TERM, USER

```

\Drupal\Core\Access\AccessibleInterface
\D...Core\Cache\CacheableDependencyInterface
\Drupal\Core\Entity\ContentEntityBase
\Drupal\Core\Entity\ContentEntityInterface
\Drupal\Core\Entity\EntityInterface

```

Content entities: 'aggregator_feed', 'aggregator_item', 'block_content', 'comment', 'contact_message', 'file', 'menu_link_content', 'menu_link_content', 'node', 'shortcut', 'taxonomy_term', 'user'.

```

$entity = Entity::create($values); [P]
$entity = Entity::load($id); [P]
$entities = Entity::loadMultiple($ids); [P]
$entity->save();
$entity->delete();

```

```

$entity_id = $entity->id();
$bundle = $entity->bundle();
$not_saved = $entity->isNew();
$can_edit = $entity->access('edit', $account);

```

```

\Drupal\node\NodeInterface
\Drupal\node\Entity\Node
\Drupal\user\Entity\OwnerInterface

```

```

$node = $this->entityTypeManager->getStorage('node')->load($nid);
$node = Node::load($nid); [P]
$node->save();
$node->delete();

```

```

$node_type = $node->getType();
$title = $node->getTitle();
$visible = $node->isPublished();
$node->setPromoted(TRUE);
$uid = $node->getOwnerId();
$author = $node->getOwner();

```

```

Drupal\taxonomy\TermInterface
Drupal\taxonomy\Entity\Term

```

```

$term = $this->entityTypeManager->getStorage('taxonomy_term')->load($tid);
$term = Term::load($tid); [P]

```

```

$children = $this->entityTypeManager->getStorage('taxonomy_term')->loadChildren($tid);
$tree = $this->entityTypeManager->getStorage('taxonomy_term')->loadTree($vid, 0, NULL, TRUE);

```

```

$vocabulary = $term->getVocabularyId();
$term_name = $term->getName();
$description = $term->getDescription();
$sort = $term->getWeight();

```

```

\Drupal\user\UserInterface
\Drupal\user\Entity\User

$user = User::load($uid); [P]
$is_admin = $user->hasRole($role_id);
$is_active = $user->isActive();
$first_name = $user->field_name->value;

```

```

\Drupal\file\FileInterface
\Drupal\file\Entity\File

$image = File::load($fid); [P]
$name = $file->getFilename();
$uri = $file->getFileUri();
$mime_type = $file->getMimeType();
$size = $file->getSize();
$temp_file = $file->isTemporary();

```

ENTITY TRANSLATION

```

\Drupal\Core\TypedData\TranslatableInterface

$language = $entity->language();
$translatable = $entity->isTranslatable();
$default = $entity->getDefaultTranslation();
$is_dutch = $entity->hasTranslation('nl');
addTranslation($langcode, $values);
$dutch_content = $entity->getTranslation('nl');

```

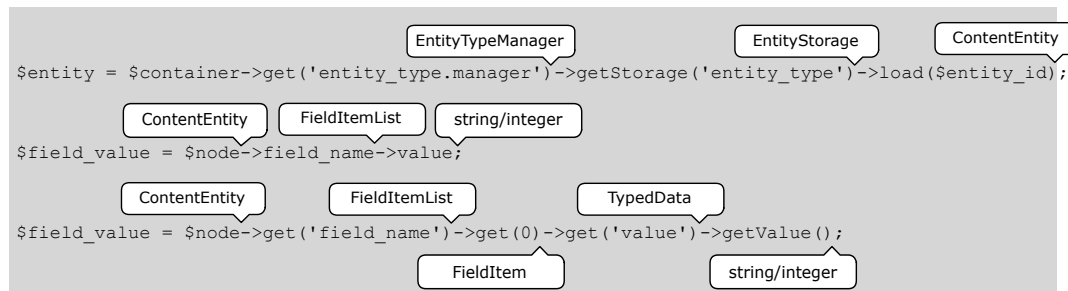
ENTITY REVISIONS

```

\Drupal\Core\Entity\RevisableInterface

$is_new = $entity->isNewRevision();

```



```

$default = $entity->isDefaultRevision($new);
$entity->setNewRevision($value);
$revision_id = $entity->getRevisionId();

```

ENTITY FIELDS

```

\Drupal\Core\Entity\FieldableEntityInterface
\Drupal\Core\Field\FieldItemInterface
\Drupal\Core\Field\FieldItemListInterface
\Drupal\Core\TypedData\TypedDataInterface

```

```

$body_text = $node->body->value;
$body_text = $node->get('body')->value;
$body_array = $node->body->getValue();
$body_text example: <p>Hello!</p>
$body_array example: array(
    0 => array(
        'value' => '<p>Hello!</p>',
        'summary' => '',
        'format' => 'basic_html',
    )
)

```

```

$field_item_list = $entity->get('field_name');
$fields_array = $entity->toArray();
$field_item_lists = $entity->getFields();
$fields_array Array of raw values per field.
$field_item_lists Array of FieldItemList per field.
$text_format = $node->body->format;
$third_tag_id = $node->field_tags[2]->target_id;

```

```

$has_body = $node->hasField('body');
$empty_body = $node->body->isEmpty();
$fields = $node->getTranslatableFields();
$entity->set('title', 'New title');

```

```

$field_names = array_keys($node->getFields());
$field_names = array_keys($this->entityFieldManager->getFieldDefinitions('node', 'article'));
$definition = $entity->getFieldDefinition('field_name');

```

Node field names: 'nid', 'uuid', 'vid', 'type', 'langcode', 'title', 'uid', 'status', 'created', 'changed',



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'promote', 'sticky', 'revision_timestamp', 'revision_uid', 'revision_log', 'path', 'body', 'comment', 'field_image', 'field_tags'.

```

$field_properties = array_keys($node->getFieldDefinition('body')->getFieldStorageDefinition()->getPropertyDefinitions());

```

Text plain field properties: 'value'.

Text formatted field properties: 'value', 'format', 'processed'.

Text with summary field properties: 'value', 'format', 'processed', 'summary', 'summary_processed'.

Taxonomy entity reference field properties: 'target_id', 'entity'.

File entity reference field properties: 'target_id', 'entity', 'display', 'description'.

Image entity reference field properties: 'target_id', 'entity', 'display', 'description', 'alt', 'title', 'width', 'height'.

Date field properties: 'value', 'date'.

ENTITY REFERENCE FIELDS

```

$vid = $node->field_tags->entity->getVocabularyId();
$uri = $node->field_file->entity->getFileUri();

```

```

$name = $node->getOwner()->getDisplayName();
$roles = $node->getOwner()->getRoles();

```



ENTITY STORAGE

```

\Drupal\Core\Entity\EntityStorageInterface
\D...Core\Entity\Sql\SqlContentEntityStorage
hook_entity_*()
* = create, load, insert, update, view,
  view_alter, view_mode_alter,
  view_display_alter, prepare_view,
  presave, predelete, delete.
hook_ENTITY_TYPE_*()
* = create, load, insert, update, view,
  view_alter, presave, predelete, delete.

```

```

$this->entityStorage = $container
->get('entity_type.manager')
->getStorage('entity_type');
$entity_storage = \Drupal::
entityTypeManager()
->getStorage('entity_type'); P

```

```

$entity = $this->entityStorage
->load($entity_id);
$entities = $this->entityStorage
->loadMultiple($entity_ids);
$revision = $this->entityStorage
->loadRevision($revision_id);

```

```

$entity = $this->entityStorage
->create($entity_values);
$this->entityStorage->delete($entities);
$this->entityStorage->save($entity);

```

ENTITY VIEW

```

\Dr...Core\Entity\EntityViewBuilderInterface
\Drupal\Core\Entity\EntityViewBuilder
$this->viewBuilder = $this
->entityTypeManager
->getViewBuilder('node');
$view_builder = \Drupal::entityTypeManager()
->getViewBuilder('node'); P
$build = $view_builder
->view($node, 'teaser');

```

```

QueryFactory      Query      array
$query = $container->get('entity.query')->get('content_type')->execute();

EntityTypeManager  EntityViewBuilder  (render) array
$build = $this->entityTypeManager->getViewBuilder('node')->view($node, 'teaser');

```



ENTITY ACCESS

```

\Drupal\Core\Access\AccessibleInterface
hook_entity_*()
hook_ENTITY_TYPE_*()
* = access, create_access, field_access.
$entity->access($operation);
$entity->field_name->access($operation);
Entity access operations: view, create, update, delete.
Entities can define additional operations.
Entity field_access operations: view, edit.

```

ENTITY QUERY

```

\Drupal\Core\Config\Entity\Query\Query
\Drupal\Core\Entity\Query\QueryFactory
\Drupal\Core\Entity\Query\QueryInterface
$this->entityQuery = $container
->get('entity.query');

```

```

$query = $this->entityQuery
->getAggregate('node');
$query = \Drupal::
entityQueryAggregate('node'); P

```

```

$node_ids = $this->entityQuery->get('node')
->condition('type', 'article')
->condition('status', 1)
->execute();

```

```

$query = $this->entityQuery
->get('aggregator_feed');
$or_condition = $query->orConditionGroup()
->condition('title', $feed->label())
->condition('url', $feed->getUrl());
$duplicates = $query
->condition($or_condition)
->execute();

```

Condition operators (3rd param):
 '=', '<', '>', '>=', '<=', '<=',
 'STARTS_WITH', 'CONTAINS',
 'ENDS_WITH', 'IN', 'NOT IN',
 'BETWEEN'.

ENTITY QUERY: RANGE, SORT, PAGER

```

$name_taken = (bool) $this->entityQuery
->get('user')
->condition('name', $name)
->range(0, 1)
->count()
->execute();

```

```

$sorted_terms = $this->entityQuery
->get('taxonomy_term')
->sort('weight')
->sort('name')
->addTag('term_access')
->execute();

```

```

$entity_query = $this->queryFactory
->get('user')
->condition('uid', 0, '<')
->pager(50);
$header = $this->buildHeader();
$entity_query->tableSort($header);
$uids = $entity_query->execute();

```

SERVICES

- entity.query
- entity.repository
- entity_display.repository
- entity_field.manager
- entity_type.bundle.info
- entity_type.manager
- entity_type.repository



DOCUMENTATION

Entity API docs: api.drupal.org
 Community documentation: Entity API - Drupal 8
 Hooks: file entity.api.php

P = Procedural code. Do not use this in OO code because it can not be unit tested or replaced.

