

Status Codes

Neo4j v5.1

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The Neo4j status codes for Neo4j v5.1.

Each status code follows the same format:

```
Neo.[Classification].[Category].[Title]
```

The fact that a status code is returned by the server does not always mean there is a fatal error. Status codes can also indicate transient problems that may go away if you retry the request.

What the effect of the status code is can be determined by the classification.

Classifications

| Classification | Description | Effect on transaction |
|-------------------------------------|---|-----------------------|
| ClientError | The Client sent a bad request - changing the request might yield a successful outcome. | Rollback |
| ClientNotifications | The query execution was successful, but there are notifications about the request sent by the client. | None |
| TransientError | The database cannot service the request right now, retrying later might yield a successful outcome. | Rollback |
| DatabaseError | The database failed to service the request. | Rollback |

Neo4j version changes

Neo4j 5.0

New:

```
neo.ClientNotification.Database.HomeDatabaseNotFound
Neo.ClientNotification.Request.DeprecatedFormat
neo.ClientNotification.Schema.HintedIndexNotFound
neo.ClientNotification.Statement.CartesianProduct
neo.ClientNotification.Statement.CodeGenerationFailed
neo.ClientNotification.Statement.DynamicProperty
```

```
neo.ClientNotification.Statement.EagerOperator  
neo.ClientNotification.Statement.ExhaustiveShortestPath  
neo.ClientNotification.Statement.NoApplicableIndex  
neo.ClientNotification.Statement.RuntimeExperimental  
neo.ClientNotification.Statement.SubqueryVariableShadowing  
neo.ClientNotification.Statement.UnboundedVariableLengthPattern
```

Removed:

```
neo.ClientError.Statement.CodeGenerationFailed  
neo.ClientNotification.Statement.CartesianProductWarning  
neo.ClientNotification.Statement.DynamicPropertyWarning  
neo.ClientNotification.Statement.EagerOperatorWarning  
neo.ClientNotification.Statement.ExhaustiveShortestPathWarning  
neo.ClientNotification.Statement.ExperimentalFeature  
Neo.ClientNotification.Statement.MissingAlias  
neo.ClientNotification.Statement.NoApplicableIndexWarning  
neo.ClientNotification.Statement.SubqueryVariableShadowingWarning  
neo.ClientNotification.Statement.UnboundedVariableLengthPatternWarning
```

Neo4j 4.4

New:

```
Neo.ClientError.Statement.UnsupportedAdministrationCommand  
Neo.DatabaseError.Transaction.LinkedTransactionError
```

Neo4j 4.3

New:

```
Neo.ClientError.General.UpgradeRequired  
Neo.TransientError.Statement.ExecutionTimeout
```

Neo4j 4.2

New:

```
Neo.ClientNotification.Statement.MissingAlias  
Neo.ClientNotification.Statement.SubqueryVariableShadowingWarning  
Neo.TransientError.Transaction.TransientTransactionFailure
```

Neo4j 4.1

New:

```
Neo.ClientError.Cluster.Routing  
Neo.ClientError.General.TransactionOutOfMemoryError  
Neo.ClientError.Statement.AccessMode  
Neo.DatabaseError.Statement.RemoteExecutionFailed  
Neo.TransientError.General.MemoryPoolOutOfMemoryError
```

Removed:

```
Neo.ClientError.Cluster.TransactionSizeExceedsLimit  
Neo.DatabaseError.Cluster.SerializationFailure  
Neo.TransientError.General.TransactionOutOfMemoryError
```

Neo4j 4.0

New:

```
Neo.ClientError.Cluster.TransactionSizeExceedsLimit  
Neo.ClientError.Database.DatabaseNotFound  
Neo.ClientError.Database.ExistingDatabaseFound  
Neo.ClientError.Fabric.AccessMode  
Neo.ClientError.Schema.ConstraintViolation  
Neo.ClientError.Schema.ConstraintWithNameAlreadyExists  
Neo.ClientError.Schema.EquivalentSchemaRuleAlreadyExists  
Neo.ClientError.Schema.IndexMultipleFound  
Neo.ClientError.Schema.IndexWithNameAlreadyExists  
Neo.ClientError.Statement.NotSystemDatabaseError  
Neo.ClientError.Statement.RuntimeUnsupportedError  
Neo.ClientError.Transaction.InvalidBookmarkMixture  
Neo.DatabaseError.Cluster.SerializationFailure  
Neo.DatabaseError.Database.DatabaseLimitReached  
Neo.DatabaseError.Database.UnableToStartDatabase  
Neo.DatabaseError.Database.Unknown  
Neo.DatabaseError.Fabric.RemoteExecutionFailed  
Neo.DatabaseError.Schema.TokenLimitReached  
Neo.DatabaseError.Statement.CodeGenerationFailed  
Neo.TransientError.Database.DatabaseUnavailable  
Neo.TransientError.General.TransactionMemoryLimit  
Neo.TransientError.General.TransactionOutOfMemoryError  
Neo.TransientError.Transaction.BookmarkTimeout  
Neo.TransientError.Transaction.LeaseExpired  
Neo.TransientError.Transaction.MaximumTransactionLimitReached
```

Removed:

```
Neo.ClientError.LegacyIndex.LegacyIndexNotFound
Neo.ClientError.Request.TransactionRequired
Neo.ClientError.Schema.ConstraintVerificationFailed
Neo.ClientError.Security.EncryptionRequired
Neo.ClientError.Statement.LabelNotFound
Neo.ClientNotification.Statement.CreateUniqueUnavailableWarning
Neo.ClientNotification.Statement.JoinHintUnsupportedWarning
Neo.ClientNotification.Statement.PlannerUnavailableWarning
Neo.ClientNotification.Statement.PlannerUnsupportedWarning
Neo.DatabaseError.Schema.LabelLimitReached
Neo.TransientError.Cluster.NoLeaderAvailable
Neo.TransientError.General.DatabaseUnavailable
Neo.TransientError.Network.CommunicationError
Neo.TransientError.Schema.SchemaModifiedConcurrently
Neo.TransientError.Transaction.InstanceStateChanged
Neo.TransientError.Transaction.LockSessionExpired
```