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## Duplicate column name

Ask Question

I've changed my models and then I tried to migrate them, but got this error:

```
python manage.py migrate
Operations to perform:
  Apply all migrations: admin, contenttypes, auth, sessions, myapp
Running migrations:
  Rendering model states... DONE
  Applying myapp.0002_auto_20160315_1544...Traceback (most recent call last):
  File "/home/bootuz/final/myenv/lib/python3.4/site-packages/django/db/backends/utils.py", line 64, in execute
    return self.cursor.execute(sql, params)
  File "/home/bootuz/final/myenv/lib/python3.4/site-packages/django/db/backends/mysql/base.py", line 112, in execute
    return self.cursor.execute(query, args)
  File "/home/bootuz/final/myenv/lib/python3.4/site-packages/MySQLdb/cursors.py", line 226, in execute
    self.errorhandler(self, exc, value)
  File "/home/bootuz/final/myenv/lib/python3.4/site-packages/MySQLdb/connections.py", line 36, in defaulterrorhandler
    raise errorvalue
  File "/home/bootuz/final/myenv/lib/python3.4/site-packages/MySQLdb/cursors.py", line 217, in execute
    res = self._query(query)
  File "/home/bootuz/final/myenv/lib/python3.4/site-packages/MySQLdb/cursors.py", line 378, in _query
    rowcount = self._do_query(q)
  File "/home/bootuz/final/myenv/lib/python3.4/site-packages/MySQLdb/cursors.py", line 341, in _do_query
    db.query(q)
  File "/home/bootuz/final/myenv/lib/python3.4/site-packages/MySQLdb/connections.py", line 280, in query
```

```
        _mysql.connection.query(self, query)
_mysql_exceptions.OperationalError: (1060, "Duplicate column name
'short_description_eng'")
```

The above exception was the direct cause of the following exception:

```
Traceback (most recent call last):
  File "manage.py", line 10, in <module>
    execute_from_command_line(sys.argv)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/core/management/__init__.py", line 353, in execute_from_command_line
    utility.execute()
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/core/management/__init__.py", line 345, in execute
    self.fetch_command(subcommand).run_from_argv(self.argv)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/core/management/base.py", line 348, in run_from_argv
    self.execute(*args, **cmd_options)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/core/management/base.py", line 399, in execute
    output = self.handle(*args, **options)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/core/management/commands/migrate.py", line 200, in handle
    executor.migrate(targets, plan, fake=fake, fake_initial=fake_initial)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/migrations/executor.py", line 92, in migrate
    self._migrate_all_forwards(plan, full_plan, fake=fake, fake_initial=fake_initial)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/migrations/executor.py", line 121, in _migrate_all_forwards
    state = self.apply_migration(state, migration, fake=fake, fake_initial=fake_initial)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/migrations/executor.py", line 198, in apply_migration
    state = migration.apply(state, schema_editor)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/migrations/migration.py", line 123, in apply
    operation.database_forwards(self.app_label, schema_editor, old_state, project_state)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/migrations/operations/fields.py", line 62, in database_forwards
    field,
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/backends/mysql/schema.py", line 50, in add_field
    super(DatabaseSchemaEditor, self).add_field(model, field)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/backends/base/schema.py", line 396, in add_field
    self.execute(sql, params)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/backends/base/schema.py", line 110, in execute
    cursor.execute(sql, params)
  File "/home/bootuz/final/myvenv/lib/python3.4/site-
```

```

packages/django/db/backends/utils.py", line 64, in execute
    return self.cursor.execute(sql, params)
File "/home/bootuz/final/myvenv/lib/python3.4/site-packages/django/db/utils.py", line
95, in __exit__
    six.reraise(dj_exc_type, dj_exc_value, traceback)
File "/home/bootuz/final/myvenv/lib/python3.4/site-packages/django/exceptions.py", line
685, in reraise
    raise value.with_traceback(tb)
File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/backends/utils.py", line 64, in execute
    return self.cursor.execute(sql, params)
File "/home/bootuz/final/myvenv/lib/python3.4/site-
packages/django/db/backends/mysql/base.py", line 112, in execute
    return self.cursor.execute(query, args)
File "/home/bootuz/final/myvenv/lib/python3.4/site-packages/MySQLdb/cursors.py", line
226, in execute
    self.errorhandler(self, exc, value)
File "/home/bootuz/final/myvenv/lib/python3.4/site-packages/MySQLdb/connections.py",
line 36, in defaulterrorhandler
    raise errorvalue
File "/home/bootuz/final/myvenv/lib/python3.4/site-packages/MySQLdb/cursors.py", line
217, in execute
    res = self._query(query)
File "/home/bootuz/final/myvenv/lib/python3.4/site-packages/MySQLdb/cursors.py", line
378, in _query
    rowcount = self._do_query(q)
File "/home/bootuz/final/myvenv/lib/python3.4/site-packages/MySQLdb/cursors.py", line
341, in _do_query
    db.query(q)
File "/home/bootuz/final/myvenv/lib/python3.4/site-packages/MySQLdb/connections.py",
line 280, in query
    _mysql.connection.query(self, query)
django.db.utils.OperationalError: (1060, "Duplicate column name 'short_description_eng'")

```

This is my models:

```

class Words(models.Model):
    title = models.CharField(max_length=100, unique=True, verbose_name='Слово')
    audio = models.FileField(upload_to='audio', blank=True, verbose_name='Озвучка')
    short_description_rus = models.CharField(max_length=100, default='', blank=True,
verbose_name='Условное обозначение Рус')
    russian = models.TextField(default='', blank=True, verbose_name='Русский')
    short_description_eng = models.CharField(max_length=110, default='', blank=True,
verbose_name='Условное обозначение Eng')
    english = models.TextField(default='', blank=True, verbose_name='English')
    short_description_tur = models.CharField(max_length=100, default='', blank=True,
verbose_name='Условное обозначение Tür')
    turkish = models.TextField(default='', blank=True, verbose_name='Türkçe')

```



Whats wrong?

Migration file

```
# -*- coding: utf-8 -*-
# Generated by Django 1.9.2 on 2016-03-15 15:44
from __future__ import unicode_literals

from django.db import migrations, models

class Migration(migrations.Migration):

    dependencies = [
        ('myapp', '0001_initial'),
    ]

    operations = [
        migrations.AddField(
            model_name='words',
            name='short_description_eng',
            field=models.CharField(blank=True, default='', max_length=100,
verbose_name='Условное обозначение Eng'),
        ),
        migrations.AddField(
            model_name='words',
            name='short_description_rus',
            field=models.CharField(blank=True, default='', max_length=100,
verbose_name='Условное обозначение Рус'),
        ),
        migrations.AddField(
            model_name='words',
            name='short_description_tur',
            field=models.CharField(blank=True, default='', max_length=100,
verbose_name='Условное обозначение Tür'),
        ),
        migrations.AlterField(
            model_name='words',
            name='audio',
            field=models.FileField(blank=True, upload_to='audio',
verbose_name='Озвучка'),
        ),
        migrations.AlterField(
            model_name='words',
            name='english',
            field=models.TextField(blank=True, default='', verbose_name='English'),
        ),
        migrations.AlterField(
```

```

        model_name='words',
        name='russian',
        field=models.TextField(blank=True, default='', verbose_name='Русский'),
    ),
    migrations.AlterField(
        model_name='words',
        name='title',
        field=models.CharField(max_length=100, unique=True, verbose_name='Слово'),
    ),
    migrations.AlterField(
        model_name='words',
        name='turkish',
        field=models.TextField(blank=True, default='', verbose_name='Türkçe'),
    ),
]

```

python

django

edited Mar 15 '16 at 16:24



Sayse

28.6k 10 49 92

asked Mar 15 '16 at 16:08



Bootuz

91 2 9

2 Can you show the 0002\_auto\_20160315\_1544 migration file? – Sayse Mar 15 '16 at 16:09

Can you show also your first ( 0001\_initial ) migration file? – GwynBleidD Mar 15 '16 at 16:30

[pastebin.com/wzyDZFSv](https://pastebin.com/wzyDZFSv) – Bootuz Mar 15 '16 at 16:32

can I add new fields to the 0001\_initial and then run migrate? – Bootuz Mar 15 '16 at 16:40

## 4 Answers

I had the same issue. Basically, the reason is because the

migration thinks the database has those columns but the DB actually does not, so you need a procedure to delete those non-existent columns from migration records.

1.Comment those columns in your code.

2.Reset migrations.

```
find . -path "*/migrations/*.py" -not -name "__init__.py" -delete  
find . -path "*/migrations/*.pyc" -delete
```

3.Do normal initial migration.

```
python manage.py makemigrations  
python manage.py migrate
```

4.In your code, uncomment those duplicate columns.

```
python manage.py makemigrations  
python manage.py migrate --fake
```

5.Now your migrations and code are on same page. I use fake to let migration believe DB has those column, but indeed DB does not.

6.In your code, comment those duplicate column again.

```
python manage.py makemigrations  
python manage.py migrate
```

7.Here, you successfully delete those column records from migrations. And also in your code, those column are commented. They are on the same page.

8.Uncomment those columns again in your code and do migrations.

```
python manage.py makemigrations  
python manage.py migrate
```

9.It should then work.

This is the only way that worked for my situation. I hope others can provide an easier approach.

edited Apr 13 at 14:57

answered Sep 30 '17 at 18:58



Jiashen Cao

116 1 11

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This worked for me!! Thanks!! – [Das](#) Jul 19 at 8:44

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Glad to hear it works out! – [Jiashen Cao](#) Jul 19 at 15:05

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Why does the migration script "think" that the fields already exist?  
Maybe a bug and should be reported? – [Droidzone](#) Sep 19 at 2:27

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@Droidzone I got the issue because I share the migration files with my coworkers. He successfully runs migrations on his local machine, but his migrations have different records as my localhost database schema. – [Jiashen Cao](#) Sep 19 at 19:13

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I'm going to assume that you have a previous migration in which you've already added the `short_description_eng` field. You could check this by looking through the previous migration files for the string `'short_description_eng'`. If that's True, you can just delete the following from the `0002_auto_20160315_1544` migration file.

```
migrations.AddField(  
    model_name='words',  
    name='short_description_eng',
```

```
field=models.CharField(blank=True, default='', max_length=100,
                        label='обозначение Eng'),
),
```

If that isn't the case then its possible you've got your database in a foobar'ed state and it may be worth deleting it (assuming this is a development database) and recreating it.

answered Mar 15 '16 at 16:26



Sayse

28.6k 10 49 92

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Can i backup my datas and then recreate the db and then restore the data? – [Bootuz](#) Mar 15 '16 at 16:30

- 
- 1 @AstemirBoziev - Possibly, with [dumpdata](#) and [loaddata](#) , although its probably safer to first create a separate database and change your settings to use this new database to see if it rectifies the problem. – [Sayse](#) Mar 15 '16 at 16:32



Just found the solution! I deleted all my migrations with `0001_initial` , and then run `makemigrations` and `migrate` and all the changes appllied!

answered Mar 15 '16 at 16:56



Bootuz

91 2 9

- 
- 3 Deleting all migrations is not a good solution especially if it is production database.You could have try faking your migrations – [Ankush](#) Nov 2 '16 at 9:15

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When I had this issue, I had to go to each migration that said it had a duplicate column and merge the `0002_*.py` migration file with the `0001_initial.py` migration file.



**1. Copy all the operations in the** `operations = []` **list and paste them into the** `operations = []` **list in the** `0001_initial.py` **file.**

```
migrations.AddField(
    model_name='words',
    name='short_description_eng',
    field=models.CharField(blank=True, default='', max_length=100,
        verbose_name='English description'),
),
migrations.AddField(
    model_name='words',
    name='short_description_rus',
    field=models.CharField(blank=True, default='', max_length=100,
        verbose_name='Russian description'),
),
migrations.AddField(
    model_name='words',
    name='short_description_tur',
    field=models.CharField(blank=True, default='', max_length=100,
        verbose_name='Turkish description'),
),
migrations.AlterField(
    model_name='words',
    name='audio',
    field=models.FileField(blank=True, upload_to='audio', verbose_name='audio'),
),
migrations.AlterField(
    model_name='words',
    name='english',
    field=models.TextField(blank=True, default='', verbose_name='English text'),
),
migrations.AlterField(
    model_name='words',
    name='russian',
    field=models.TextField(blank=True, default='', verbose_name='Russian text'),
),
migrations.AlterField(
    model_name='words',
    name='title',
    field=models.CharField(max_length=100, unique=True, verbose_name='Title'),
),
migrations.AlterField(
    model_name='words',
    name='turkish',
```

```
field=models.TextField(blank=True, default='', verbose_name=
),
```

**2. If you had other dependencies besides 0001\_initial , you would copy all the lines in dependencies = [] (except the line that says ('myapp', '0001\_initial'), ) migrations from the list of dependencies and paste them into the 0001\_initial.py migration file.**

**Important Note:** Make sure you grab any import dependencies too. I had no issues after following those simple steps.

answered May 18 at 7:39



[Blairg23](#)

3,860 1 35 42

