

```
rm db.sqlite3 Fresh dev DB  
source venv/bin/activate
```

```
python manage.py makemigrations contracts - keep the python model  
definitions and the underlying tables in sync / Django records that  
change in a new migration
```

```
python manage.py migrate so your database picks up the new  
schema.
```

```
python manage.py loaddata base_contract tells django to lead the  
fixture
```

# SERVICES

```
amendment_rates = AmendmentRate.objects.filter(  
    contract=contract, effective_date__lte=query_date  
).order_by("-effective_date", "-id")  
  
# Walk amendments from newest to oldest until we find the  
service rate  
if amendment_rates:  
    for amendment_rate in amendment_rates:  
        amendment_rate_map = {  
            k.strip().lower(): v for k, v in  
amendment_rate.rates.items()  
        }  
        if normalized_service_type in amendment_rate_map:  
            return Decimal(str(amendment_rate_map[normalized_service_type]))
```

# TESTS

```
def setUp(self):  
    self.contract = Contract.objects.create(  
        contract_id="CTR-001", effective_date=date(2024, 1,  
1)
```

```

        )
    ContractServiceRates.objects.create(
        contract=self.contract,
        rates={"office_visit": "100.00", "lab_work": "50.00"},
    )
}

def _create_amendment(self, effective_date, updates):
    return AmendmentRate.objects.create(
        contract=self.contract,
        effective_date=effective_date,
        rates={st: rate for st, rate in updates},
    )

```

# TESTS & SERVICES

## TEST

```

def test_other_service_uses_base_rate_when_not_amended(self):
    self._create_amendment(date(2024, 6, 1),
                           [("office_visit", "120.00")])

    rate = get_service_rate_on_date("CTR-001", "lab_work",
                                    date(2024, 7, 1))
    self.assertEqual(rate, Decimal("50.00"))

```

## SERVICE

```

base_rates: ContractServiceRates = contract.base_rate_set
if normalized_service_type in base_rates.rates:
    return Decimal(str(base_rates.rates[normalized_service_type]))

```

## SERVICE

```

try:
    base_rates: ContractServiceRates =
contract.base_rate_set
except ContractServiceRates.DoesNotExist as exc:
    raise ValueError(f"No base rates found for contract
'{contract_id}'") from exc

```

## NO TEST BUT SHOULD BE

```

def test_missing_base_rates_raises_error(self):
    contract = Contract.objects.create()

```

```
        contract_id="CTR-NO-RATES",
effective_date=date(2024, 1, 1)
    )
with self.assertRaisesRegex(ValueError, "No base rates
found for contract 'CTR-NO-RATES'"):
    get_service_rate_on_date("CTR-NO-RATES",
"office_visit", date(2024, 2, 1))
```

THEN AMENDMENTS

SERVICE

```
amendment_rates = (
    AmendmentRate.objects.filter(contract=contract,
effective_date__lte=query_date)
    .order_by("-effective_date", "-id")
    .first()
)

if amendment_rates:
    if normalized_service_type in amendment_rates.rates:
        return
Decimal(str(amendment_rates.rates[normalized_service_type]))
```

TEST

AMENDMENT ONES

```
def test_service_type_matching_is_case_insensitive
Will catch you out so

amendment_rate_map = {k.strip().lower(): v for k, v in
amendment_rates.rates.items()}
    if normalized_service_type in amendment_rate_map:
        return
Decimal(str(amendment_rate_map[normalized_service_type]))
```

Should fix all