

```
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 load 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-N0-RATES",
effective_date=date(2024, 1, 1)
    )
    with self.assertRaisesRegex(ValueError, "No base rates
found for contract 'CTR-N0-RATES'"):
        get_service_rate_on_date("CTR-N0-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