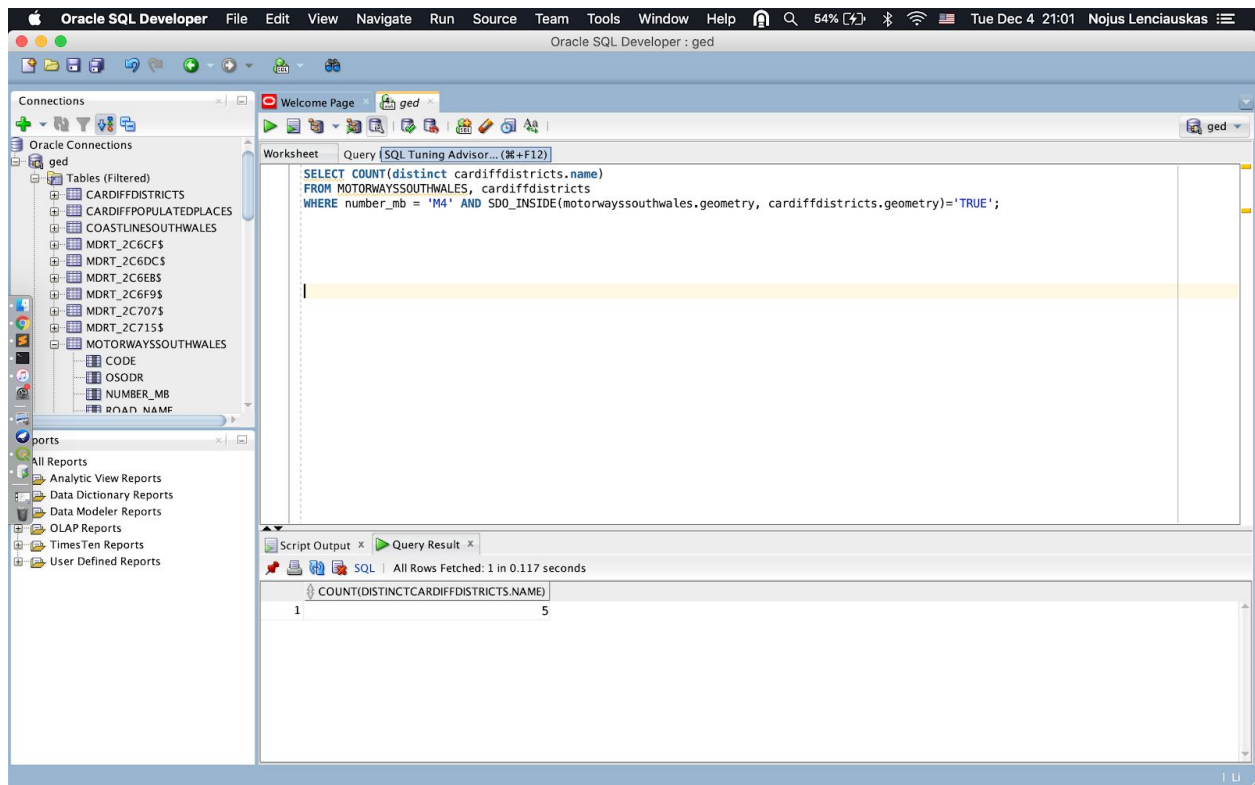


Part C

Q1:

```
SELECT distinct cardiffdistricts.name  
FROM MOTORWAYSSOUTHWALES, cardiffdistricts  
WHERE number_mb = 'M4' AND SDO_INSIDE(motorwayssouthwales.geometry,  
cardiffdistricts.geometry)='TRUE';
```

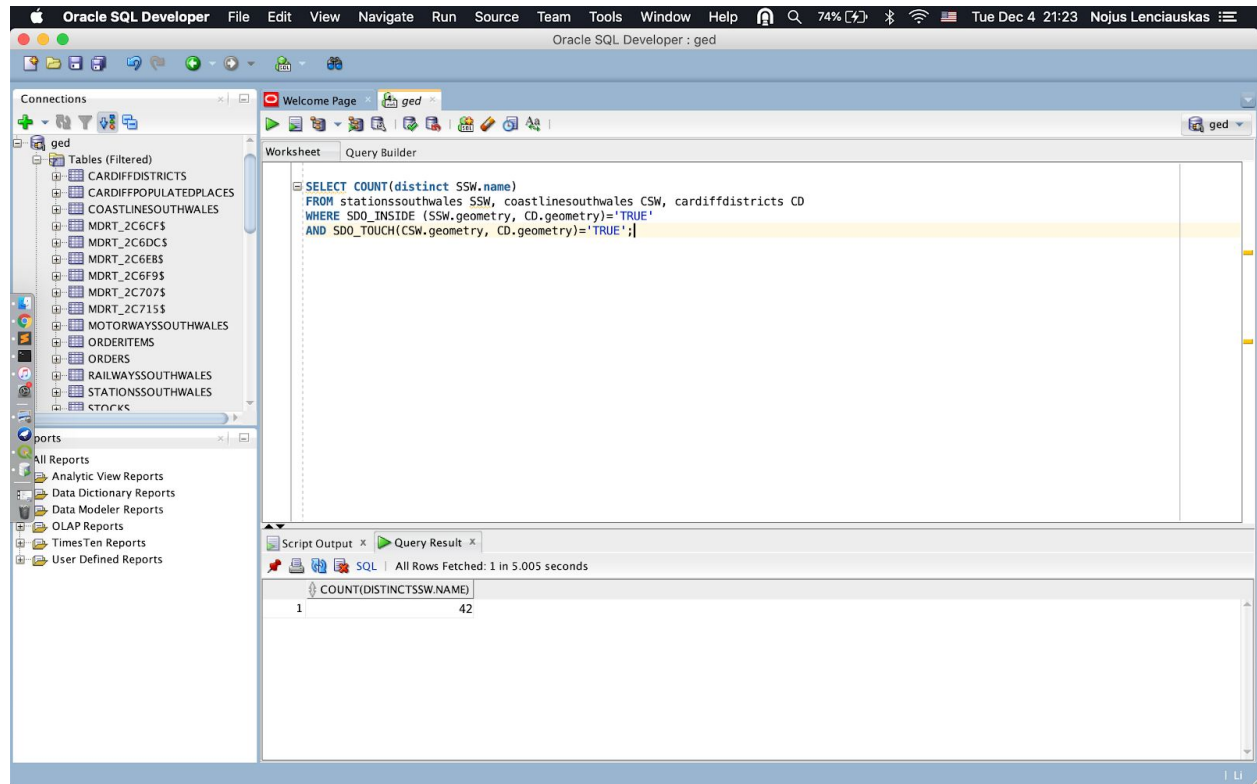
5



Q2:

```
SELECT COUNT(distinct cardiffdistricts.name)  
FROM MOTORWAYSSOUTHWALES, cardiffdistricts  
WHERE number_mb = 'M4' AND SDO_INSIDE(motorwayssouthwales.geometry,  
cardiffdistricts.geometry)='TRUE';
```

42

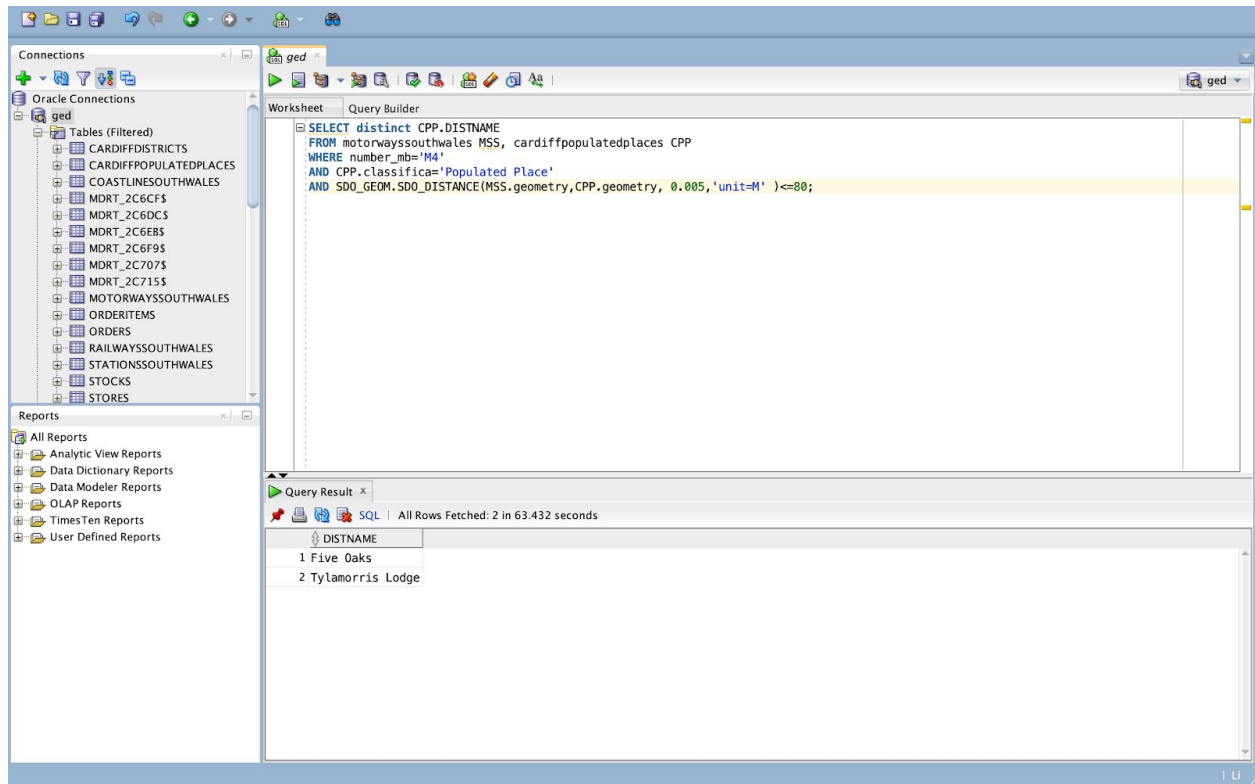


Q3:

```
SELECT distinct CPP.DISTNAME
FROM motorwayssouthwales MSS, cardiffpopulatedplaces CPP
WHERE number_mb='M4'
AND CPP.classifica='Populated Place'
AND SDO_GEOM.SDO_DISTANCE(MSS.geometry, CPP.geometry, 0.005, 'unit=M' )<=80;
```

1 Five Oaks

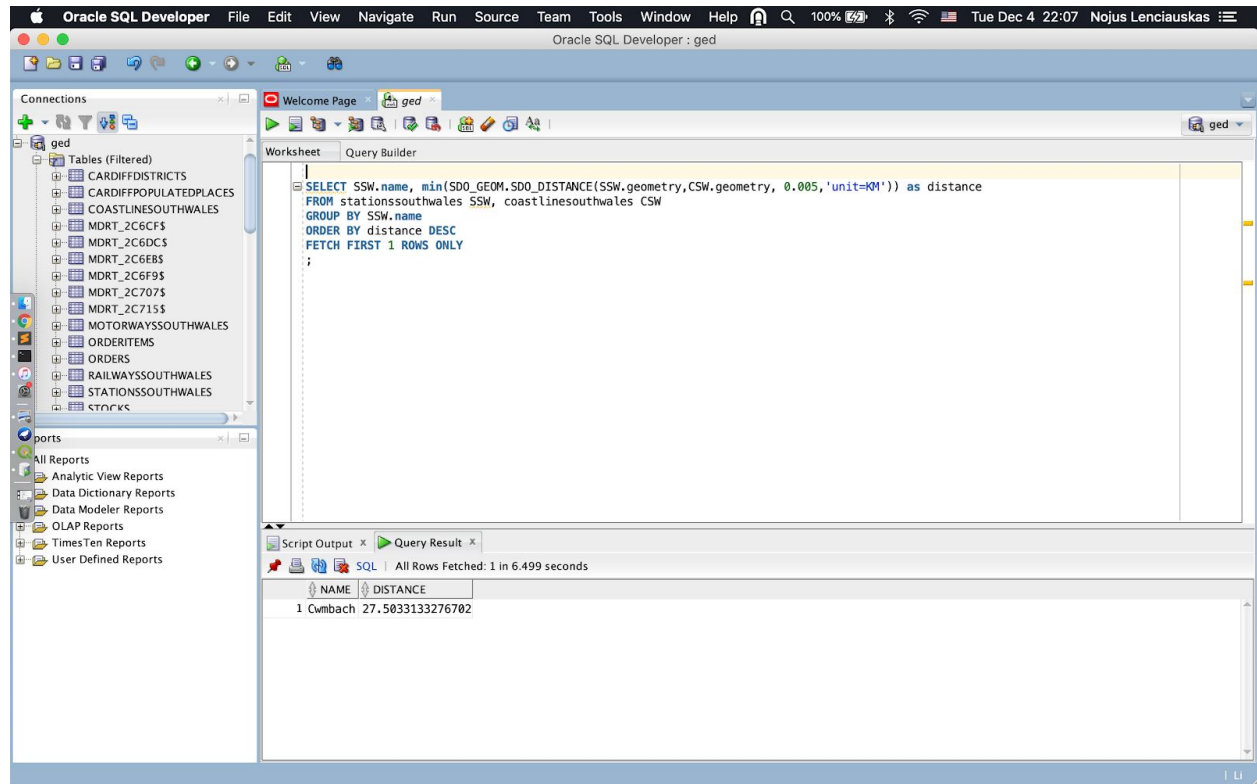
2 Tylamorris Lodge



Q4:

```
SELECT SSW.name, min(SDO_GEOM.SDO_DISTANCE(SSW.geometry, CSW.geometry,
0.005, 'unit=KM')) as distance
FROM stationssouthwales SSW, coastlinesouthwales CSW
GROUP BY SSW.name
ORDER BY distance DESC
FETCH FIRST 1 ROWS ONLY
;
```

Cwmbach 27.0533



Q5:

```
SELECT CD.name, sum(MSW.metres)
FROM motorwaysouthwales MSW, cardiffdistricts CD
WHERE number_mb='M4'
AND SDO_INSIDE(MSW.geometry,CD.geometry)='TRUE'
GROUP BY CD.name
ORDER BY sum(MSW.metres) DESC
FETCH FIRST 1 ROWS ONLY
;
```

PEN-Y-BOAT AR OGRW - BRIDGEND 17561

Oracle SQL Developer

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Oracle SQL Developer : ged

Connections

ged

Tables (Filtered)

- CARDIFFDISTRICTS
- CARDIFFPOPULATEDPLACES
- COASTLINESOUTHWALES
- MDRT_2C6CFS
- MDRT_2C6DCS
- MDRT_2C6EBS
- MDRT_2C6F9S
- MDRT_2C707S
- MDRT_2C715S
- MOTORWAYSSOUTHWALES
- ORDERITEMS
- ORDERS
- RAILWAYSSOUTHWALES
- STATIONSSOUTHWALES
- STOCKS

ports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

Welcome Page ged

Worksheet Query Builder

```
SELECT CD.name, sum(MSW.metres)
FROM motorwayssouthwales MSW, cardiffdistricts CD
WHERE number_mb='M4'
AND SDO_INSIDE(MSW.geometry,CD.geometry)='TRUE'
GROUP BY CD.name
ORDER BY sum(MSW.metres) DESC
FETCH FIRST 1 ROWS ONLY
;
```

Script Output Query Result

SQL | All Rows Fetched: 1 in 0.107 seconds

	NAME	SUM(MSW.METRES)
1	PEN-Y-BONT AR OGWR - BRIDGEND	17561

| Line 1 Column 1 | Insert | Modified: Unix/Mac: U