

1.

**Query:**

```
select dc.q11_dc_nam
from ruve.district_municipality dc
join ruve.province p
on dc.pr_code_id = p.pr_code_id
where p.pr_name = 'Gauteng';
```

**Answer:**

	q11_dc_nam character varying (39)	
1	P7D06: City of Tshwane (TSH)	
2	P7D05: City of Johannesburg (JHB)	
3	P7D01: Sedibeng (DC42)	
4	P7D03: West Rand (DC48)	
5	P7D04: Ekurhuleni (EKU)	

To join the columns based on the province code so that the relevant data can be retrieved i.e., where the province name is Gauteng.

2.

**Query:**

```
select h.rd_number
from ruve.highway h
join ruve.contractors c
on c.contractid = h.contractid
where h.contractid = 12051;
```

**Answer:**

	<b>maintenanceid</b> [PK] integer
1	4387
2	4224
3	4225
4	4227
5	4265
6	4266
7	4267
8	4268
9	4273
10	4274
11	4275
12	4276
13	4279
14	4380
15	7568
16	7569
17	7570
18	7571

	<b>maintenanceid</b> [PK] integer
17	7570
18	7571
19	4164
20	4165
21	4455
22	4575
23	4241
24	4242
25	4230
26	4234
27	4235
28	4346
29	4347
30	7540
31	7541
32	7542
33	7543
34	3741

	<b>maintenanceid</b> [PK] integer
33	7543
34	3741
35	3742
36	3892
37	3893
38	3894
39	2190
40	3310
41	4522
42	4481
43	1768
44	3028
45	3745
46	3746
47	3747
48	3748
49	3749
50	2056

	<b>maintenanceid</b> [PK] integer
49	3749
50	2056
51	2271
52	2275
53	2400
54	2842
55	3519
56	4240
57	4350
58	4351
59	4487
60	4563
61	4564
62	4565
63	6005
64	6006
65	5784
66	6008

	<b>maintenanceid</b> [PK] integer
65	5784
66	6008
67	1908
68	2908
69	2563
70	3165
71	3177
72	3604
73	1205
74	1233
75	1290
76	1293
77	1329
78	1344
79	1582
80	3193
81	3743
82	2192

	<b>maintenanceid</b> [PK] integer
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70	3165
71	3177
72	3604
73	1205
74	1233
75	1290
76	1293
77	1329
78	1344
79	1582
80	3193
81	3743
82	2192
83	2398
84	3201
85	3744


Columns are joined based on contractid and columns selected with contractid 12051.

3.

**Query:**

```
select contractorname  
from ruve."NationaRoadsAgency" r  
join ruve.contractors c  
on c.contractid = r.contractid  
where rd_name_f= 'Higginson Highway (M1)';
```

**Answer:**

	<b>contractorname</b> character varying 
1	Semanya Construction
2	Roads Builders
3	Roads Builders
4	Roads Builders
5	Roads Builders

Join the tables on the common contractid and select contractors in charge of Higginson highway M1

4.

**Query:**

```
select maintenanceid  
from ruve.contractors c  
join ruve."NationaRoadsAgency" n  
on n.contractid = c.contractid;
```

**Answer:**

	<b>maintenanceid</b> [PK] integer
1	4387
2	4224
3	4225
4	4227
5	4265
6	4266
7	4267
8	4268
9	4273
10	4274
11	4275
12	4276
13	4279
14	4380
15	7568
16	7569
17	7570
18	7571

	<b>maintenanceid</b> [PK] integer
17	7570
18	7571
19	4164
20	4165
21	4455
22	4575
23	4241
24	4242
25	4230
26	4234
27	4235
28	4346
29	4347
30	7540
31	7541
32	7542
33	7543
34	3741

	<b>maintenanceid</b> [PK] integer
33	7543
34	3741
35	3742
36	3892
37	3893
38	3894
39	2190
40	3310
41	4522
42	4481
43	1768
44	3028
45	3745
46	3746
47	3747
48	3748
49	3749
50	2056

	<b>maintenanceid</b> [PK] integer
49	3749
50	2056
51	2271
52	2275
53	2400
54	2842
55	3519
56	4240
57	4350
58	4351
59	4487
60	4563
61	4564
62	4565
63	6005
64	6006
65	5784
66	6008

	<b>maintenanceid</b> [PK] integer
65	5784
66	6008
67	1908
68	2908
69	2563
70	3165
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73	1205
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75	1290
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77	1329
78	1344
79	1582
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	<b>maintenanceid</b> [PK] integer
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72	3604
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75	1290
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77	1329
78	1344
79	1582
80	3193
81	3743
82	2192
83	2398
84	3201
85	3744

Select the maintenance id based on the similar contractid