16062664 Ruve Benadie

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:

4	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.contactid where h.contactid = 12051;

# Answer:

4	maintenanceid [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

4	maintenanceid [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

4	maintenanceid [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

4	maintenanceid [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

4	maintenanceid [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

4	maintenanceid [PK] integer
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
83	2398
84	3201
85	3744

16062664 Ruve Benadie

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:**



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:**

_	maintenanceid [PK] integer	4	maintenanceid [PK] integer		maintenanceid [PK] integer
1	4387	17	7570	33	7543
2	4224	18	7571	34	3741
3	4225	19	4164	35	3742
4	4227	20	4165	36	3892
5	4265	21	4455	37	3893
6	4266	22	4575	38	3894
7	4267	23	4241	39	2190
8	4268	24	4242		
9	4273	25	4230	40	3310
10	4274	26	4234	41	4522
11	4275			42	4481
12	4276	27	4235	43	1768
13	4279	28	4346	44	3028
14	4380	29	4347	45	3745
15	7568	30	7540	46	3746
16	7569	31	7541	47	3747
17	7570	32	7542	48	3748
18	7571	33	7543	49	3749
		34	3741	50	2056

	maintenanceid [PK] integer				
49	3749		maintenanceid [PK] integer		
50	2056	65	5784		maintenanceid [PK] integer
51	2271	66	6008	69	2563
52	2275	67	1908	70	3165
53	2400	68	2908	71	3177
54	2842	69	2563	72	3604
55	3519	70	3165	73	1205
56	4240	71	3177	74	1233
57	4350	72	3604	75	1290
58	4351	73	1205	76	1293
59	4487	74	1233	77	1329
60	4563	75	1290	78	1344
61	4564	76	1293	79	1582
62	4565	77	1329	80	3193
63	6005	78	1344	81	3743
64	6006	79	1582	82	2192
65	5784	80	3193	83	2398
66	6008	81	3743	84	3201
		82	2192	85	3744

Select the maintenance id based on the similar contractid