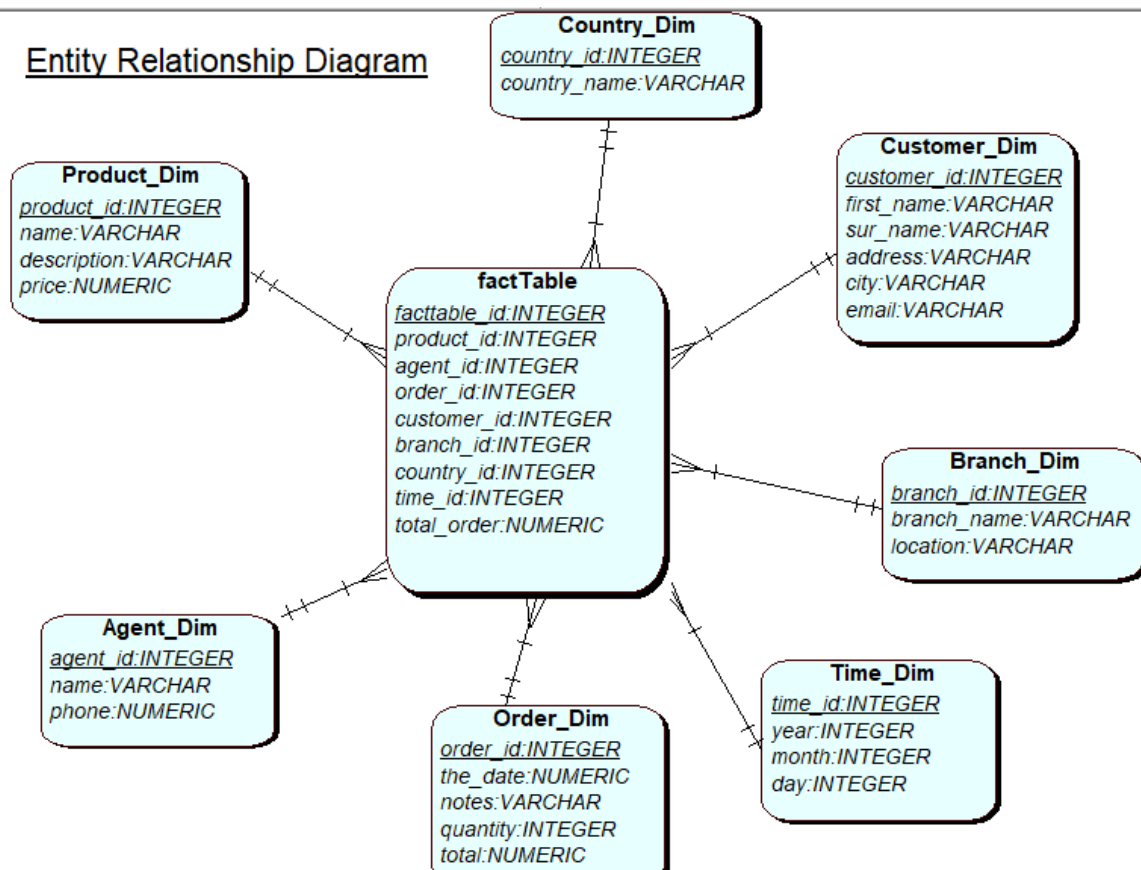


**ER diagram****Entity Relationship Diagram**

1. Number of orders made in UK first quarter of the year, in comparisons with last year?

```

1  -- 1 Number of orders made in UK first quarter of the year, in comparison with last year?
2  select T.year, sum(total_order) as total_number_of_order
3  from factTable F, Time_Dim T, Country_Dim C
4  where F.time_id = T.time_id
5  and T.year = TO_CHAR(sysdate, 'Q')
6  and T.year = to_char(sysdate, 'YYYY')
7  and C.country_id = 'uk'
8  group by T.year
9  union
10 select T.year, sum(total_order) as total_number_of_order
11 from factTable F, Time_Dim T, Country_Dim C
12 where F.time_id = T.time_id
13 and T.year = TO_CHAR(sysdate, 'Q')
14 and T.year = to_char(sysdate, 'YYYY')-1
15 and C.country_id = 'uk'
16 group by T.year
17

```

2. Who is best customer, in first quarter of this year?

```
17
18 -- 2 Who is our best customer, in first quarter of this year.
19 select C.first_name || ' is the best customer of this quarter year'
20 from factTable F, Time_Dim T, Customer_Dim C
21 where F.customer_id = C.customer_id
22 and T.year = TO_CHAR(sysdate, 'Q')
23 and T.year = to_char(sysdate, 'YYYY')
24 and F.time_id = T.time_id
25 and total_order = (select max(total_order) from factTable)
26
```

3. Total number of orders made in first quarter of the year, in comparison with last year for each branch

```
27
28 -- 3 Total number of orders made in first quarter of the year, in comparison with last year for each branch?
29 select B.branch_name, T.year, sum(F.total_order) as total_number_of_order
30 from factTable F, Time_Dim T, Branch_Dim B
31 where F.branch_id = B.branch_id
32 and F.time_id = T.time_id
33 and T.year = TO_CHAR(sysdate, 'Q')
34 and T.year = to_char(sysdate, 'YYYY')
35 group by B.branch_name, T.year
36 union
37 select B.branch_name, T.year, sum(F.total_order) as total_number_of_order
38 from factTable F, Time_Dim T, Branch_Dim B
39 where F.branch_id = B.branch_id
40 and F.time_id = T.time_id
41 and T.year = TO_CHAR(sysdate, 'Q')
42 and T.year = to_char(sysdate, 'YYYY')-1
43 group by B.branch_name, T.year
44
```

4. Who is best agent in the first quarter of this year?

```
45
46
47
48  -- 4 Who is our best Agent, in the first quarter of this year.
49  select A.name, || ' is the best agent of this quarter year'
50  from factTable F, Time_Dim T, Agent_Dim A
51  where F.agent_id = A.agent_id
52  and F.time_id = T.time_id
53  and T.year = TO_CHAR(sysdate, 'Q')
54  and T.year = to_char(sysdate, 'YYYY')
55  and total_order = (select max(total_order) from factTable)
56
```