Database CS 586

HomeWork-1

Q1

Answer:

Agent [agent\_id, first, middle, last, address, city, country, salary, clearance\_id ]

Clearance\_id -> securityclearance (sc\_id)

Skill[skill\_id, skill]

Skillrel[skill\_id, agent\_id]

Skill\_id -> skill(skill\_id)

Agent\_id -> agent(agent\_id)

Affiliation [aff\_id, agent\_id, affiliation\_strength]

Aff\_id -> affiliation(aff\_id)

Agent\_id -> agent(agent\_id)

Mission [mission\_id, name, access\_id, team\_id, mission\_status]

Access\_id -> securityclearance(access\_id)

Team\_id -> team(team\_id)

Securityclearance(sc\_id, sc\_level, description)

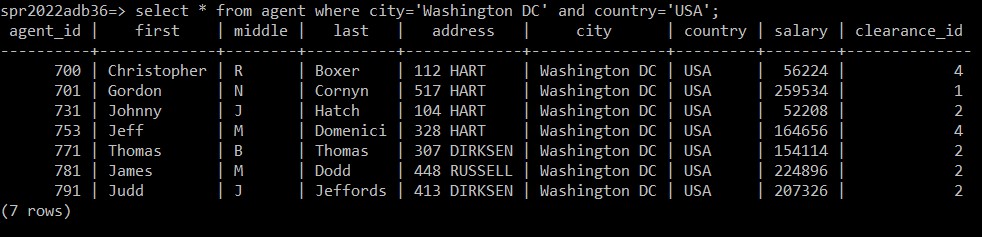
Q2

1. One
2. Many
3. Yes
4. Many
5. Yes

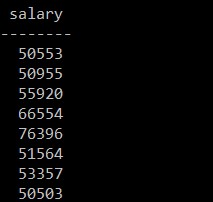
Q3

1. SELECT \* FROM agent WHERE country = 'USA' and city ='Washington DC';

Here from the Table agent we have to find all agents whose country is USA and city is Washington DC;

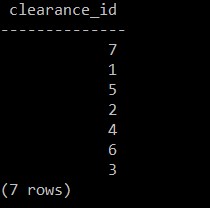


1. Select salary from agent;

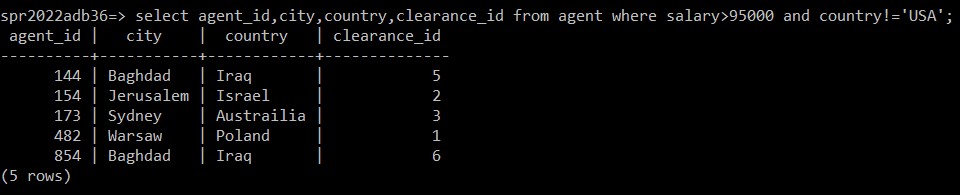


Total rows= 662

1. Select distinct clearance\_id from agent;

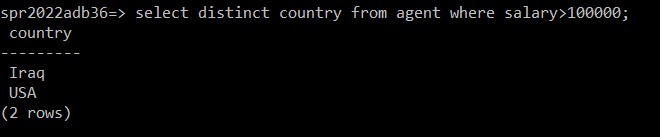


1. Select agent\_id, city, country, clearance\_id, from agent where salary>95000 and country!=’USA’;

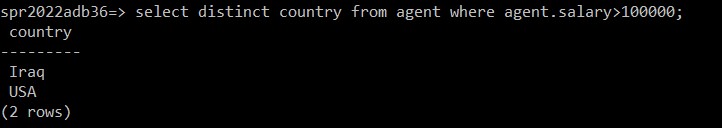


Q4

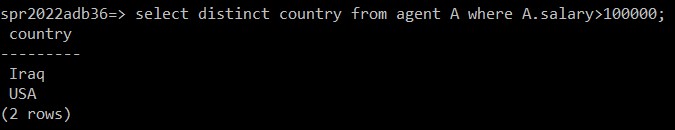
1. Select distinct country from agent where salary>100000;



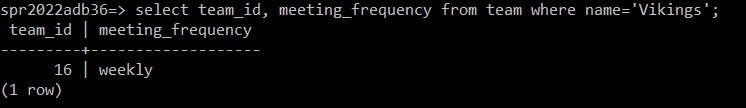
1. Select distinct county from agent where agent.salary > 100000;



1. Select distinct country from agent A where A.salary > 100000;



Q5 Select team\_id,meeting\_frequency from team where name =’Vikings’;



Q6 Select distinct A.country from agent A, securityclearance S where A.clearance\_id= S.sc\_id

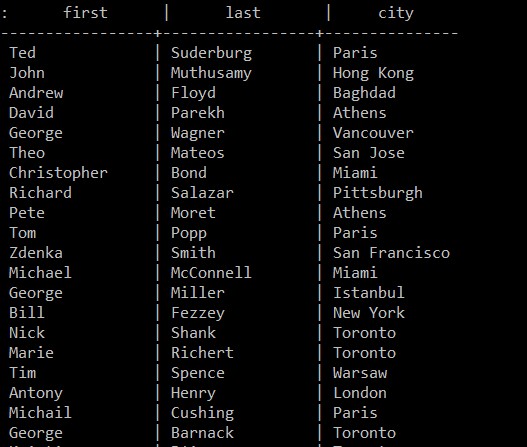
And S.sc\_level=”top secret” OR S.sc\_level=’Majestic’;



Q7 Create TempTable temp\_affiliationrel as select \* from affiliationrel;

Select distinct a.first, a.last, a.city From agent a, affiliationrel ar, temp\_affiliationrel tar

Where a.agent\_id =ar.agent and ar.aff\_id != tar.aff\_id;



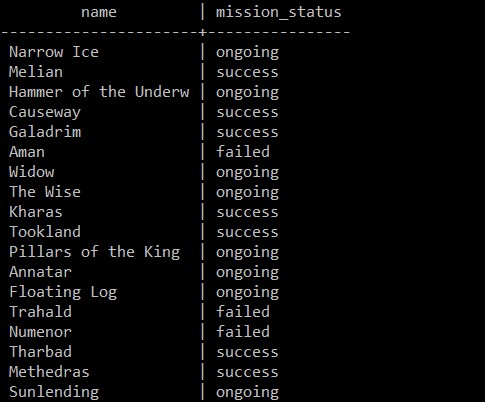
Total rows=502

Q8 Select Distinct m.name, m.mission\_status From mission m, teamrel tr, skillrel sr, skill s

Where m.team\_id=tr.team\_id and tr.agent\_id = sr.agent\_id

And sr.skill\_id =s.skill\_id

And s.skill=’VooDoo/Blackmagic’:

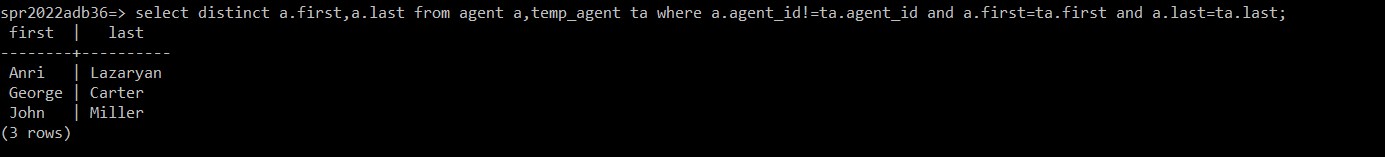


Total rows=180

Q9

Select distinct a.first, a.last from agent a, temp\_agent ta where a.agent\_id !=ta.agent\_id

And a.first= ta.first and a.last=ta.last



Q10