TEST CASES

- 8.) Design and implement database application that manages business processes. Write at least three programs to support business processes listed as the following:
 - a) A company accepts a new employee...
 - i. Upload the person's transcripts and input the course taking information into table Takes;
 - ii. Populate table Has_Skill with more rows derived from the courses this person have taken:
 - iii. Verify if this person has every skill required by the given pos code;
 - iv. If a skill gap is identified, propose a training plan for this person.

This is answered by our "New Employee App" and Query 8.

The missing knowledge skill for pers id = 7, pos id = 7 is Angular. Company is 1113.

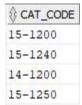


The missing knowledge skill for pers id = 11, pos id = 15, comp id = 1111 is:



8b) A person's job hunting; This could be just a user interface for Queries #13 and #14. This is answered by our "Job Hunting App."

Query 13: Given a person's identifier, list all the job categories that a person is qualified for. For pers_id = 7,

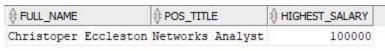


For pers_id = 12,

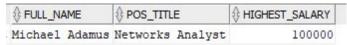
	CAT_CODE
	15-1200
	15-1240
	15-1254
ŀ	14-1200
i	15-1250

Query 14: Given a person's identifier, find the job position with the highest pay rate for this person according to his/her skill possession.

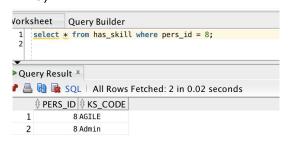
For pers_id = 7:



For pers id = 1:

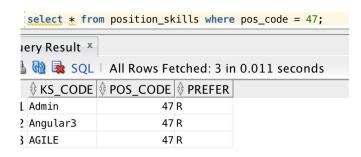


- 8c. Case 1) A company finds the best choice of people for a job position with training
 - Query #18: "almost qualified" with only 1 missing skill:
 - Expected: pers_id 8 should only be missing 1 skill for pos_code: 47 (comp_id: 1119)



0

/*16. When a company cannot find any qualified person for a job position, a secondary solution is to find a person who is almost qualified to the job position. Make a ?missing-one? list that lists people who miss only one skill for a specified pos_code. ++++Double check data, but appears to work. */ WITH pos_skills AS (SELECT ks_code FROM position_skills WHERE pos_code = 47) SELECT pers_id, COUNT(*) FROM (SELECT pers_id, ks_code FROM pos_skills, person MINUS SELECT pers_id, ks_code FROM has_skill) GROUP BY pers_id HAVING COUNT(*) = 1: uery Result × 🛓 🙀 🔯 SQL | All Rows Fetched: 1 in 0.01 seconds # PERS_ID # COUNT(*) 1 8



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Welcome to Company Recruiter!
Active positions:
19. Director of Technology
23. Software Architect
24. Quality Assurance Engineer
41. Software Teams Coordinator
42. Networks Analyst
43. Director of Data Analysis
44. Systems Coordinator
45. Networking and Systems Administrator
46. Database Administrator
47. Software Architect
48. Quality Assurance Engineer
47.
1. Find qualified people
2. Find almost qualified people
0. Quit
7
Minimum missing skills: 1
Almost Qualified people:
8.Dameron
```

8c. Case 2)

Query 15: given a position code, list people who are qualified for this position.

For comp_id: 1111 and pos_code 1, the only qualified people should be pers_id 1: Adamus and pers_id: 4 Benavides



