

Comp20070 MySQL DB Assignment: Department Vacancies DB

Student Number: 19366741

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Database name: agbaje19366741

Operating system used: Windows

Description:

I created a database called “agbaje19366741” which contained tables and relationships that represented the scenario where “Departments in a company advertising vacant positions which require specific skills and candidates may be interviewed for these vacant positions.”

From the information, I created a database containing 9 tables to implement the scenario. These tables were populated to match the scenarios and the tables were built according to the constraints given in the question.

1. **Candidate:** This table contained different information on the candidates such as their ID number, first name, surname, address and telephone number.
2. **Department:** This table contained information on the different types of departments in the company. It contained information such as the department code, name, location, and telephone number. For this table I made the assumption that the departments were located in different parts of Dublin (e.g. O’Connell Street, Donnybrook, Stillorgan etc..) and I used this to represent the location of the various departments.
3. **Positions:** This table contained information on the different vacant positions that were available in the company. This table contained information such as the name of the position, the department offering it and the type of role it is.
4. **Interviews:** This was a table containing information on the interviews that took place for the various vacant positions in the company and the date for which the interview took place. Candidates could have multiple interviews for different roles with the company.
5. **Candidate_skills:** This table contained the different skills that candidates possessed. I linked this table to the candidate table and the skills table using a many-to-many relationship. This was done so that candidates could have multiple skills.
6. **Position_skills_required:** This table contained the different skills required for the various vacant positions in the company. This table was linked to the positions table and the required_skills table so that I could use foreign keys to create a many-to-many relationship, allowing positions to require many skills for that position.
7. **Skills:** This table contained all the various skills that candidates possessed. These skills could be any skills they had and these skills do not even have to be required for the positions they were applying for.

8. Required_skills: This table contained all the different skills types that were required for the various positions on offer at the company.
9. Offerings: This table was created to represent whether a candidate was offered a position or not. The table was linked to the candidate table and the position table listing the candidate's ID number and the position code of the position they were being interviewed for and finally whether or not they were offered the job(i.e. Yes or No).

I decided to leave the setting of all the reaction policies I used on the foreign keys as the default (NO ACTION) so that changes to referenced values could not be made. I left it this way as all the information in the table was recorded action on interviews and candidates etc so I didn't want any changes to other tables.

The Entity-Relationship (ER) diagram for my database is in the folder for the submission also.