### Lecture 07 - Jobs In Database

Jobs in Database pt1 - https://youtu.be/iPsnYy0sTe0 Jobs in Database pt2 - https://youtu.be/NHs0W4dbwdU

From Amazon S3 - for download (same as youtube videos)

Jobs in Database pt1 Jobs in Database pt2

### Profile of different jobs in Database

Count	pct	Pay [1]	Description
91	12.0%	129007	Database Developer
102	14.4%	134114	Full Stack / SQL
48	6.7%	151402	Database Administrator
3	0.4%	241920	Data Modeling / Data Designer
41	5.8%	221456	Data Research / Data Scientist ( You need stat for this )
421	59.6%	128834	Developer SQL Required
706	100%		Total

Out of all jobs looked at this is just under  $^{1}/_{2}$  of all development/IT jobs that I looked at.

## **Database Developer**

- 1. Some design (ERD)
- 2. Creating of tables
- 3. Planning for systems capacity planning
- 4. Query development and tuning
- 5. Development of application server
- 6. Testing
- 7. Backups (maybe)

# Full Stack / SQL

Take Database Developer and add to it

Often this is a small business (less than 500 employees) or a startup.

1. For certain you will be doing application server development.

- 2. Front end GUI (CSS/Web:HTML,JavaScript)
  - Angular
  - Vue.js
  - React
  - jQuery/Bootstrap
- 3. Networking
- 4. DevOps Support
- 5. QA Full Product (small team)
- 6. Creation of Test systems
- 7. Backups Yep you are it.
- 8. On Call.

#### **Database Administrator**

- 1. Backups
- 2. Tuning
- 3. Queries
- 4. Mai nuance
- 5. Creation of Test systems
- 6. On Call.

# Data Modeling / Data Designer

- 1. Business design / analysis
- 2. Modeling Entity Relationship Modeling (ERD)
- 3. Deployment and maintenance of data models

# Data Research / Data Scientist (You need stat for this)

- 1. Complex queries
- 2. Statistical analysis
- 3. Feature extraction (GNN/CNN AI)

### Developer SQL Required

Usually his is really a "full stack job" but you are working with other people that are also "full stack" and that helps.

## Summary

- 1. If you want to be a Database Developer for jobs like DBA you want to pursue some "certification" beyond just this class.
- 2. Build your CV the project in this class is a good start. Get that up and running on a Digital Ocean \$5.00 a month system where you can demo it. Add login/accounts to it. Get familiar with the security side like JWT tokens and be able to talk about the good/bad of the Auth0 company.
- 3. Database jobs pay above average.
- 4. Some database jobs will have you on-call.
- 5. Most of them today are remote by my count 92.2% are 100% remote.
- $6.\ \, {\rm Good\ familiarity\ with\ AWS,\ GCP}$  and other hosing serveries is a requirement.
- 7. Should be good at using the Linux command line and probably VI.

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