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 $\frac{1}{2}$ 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. 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.