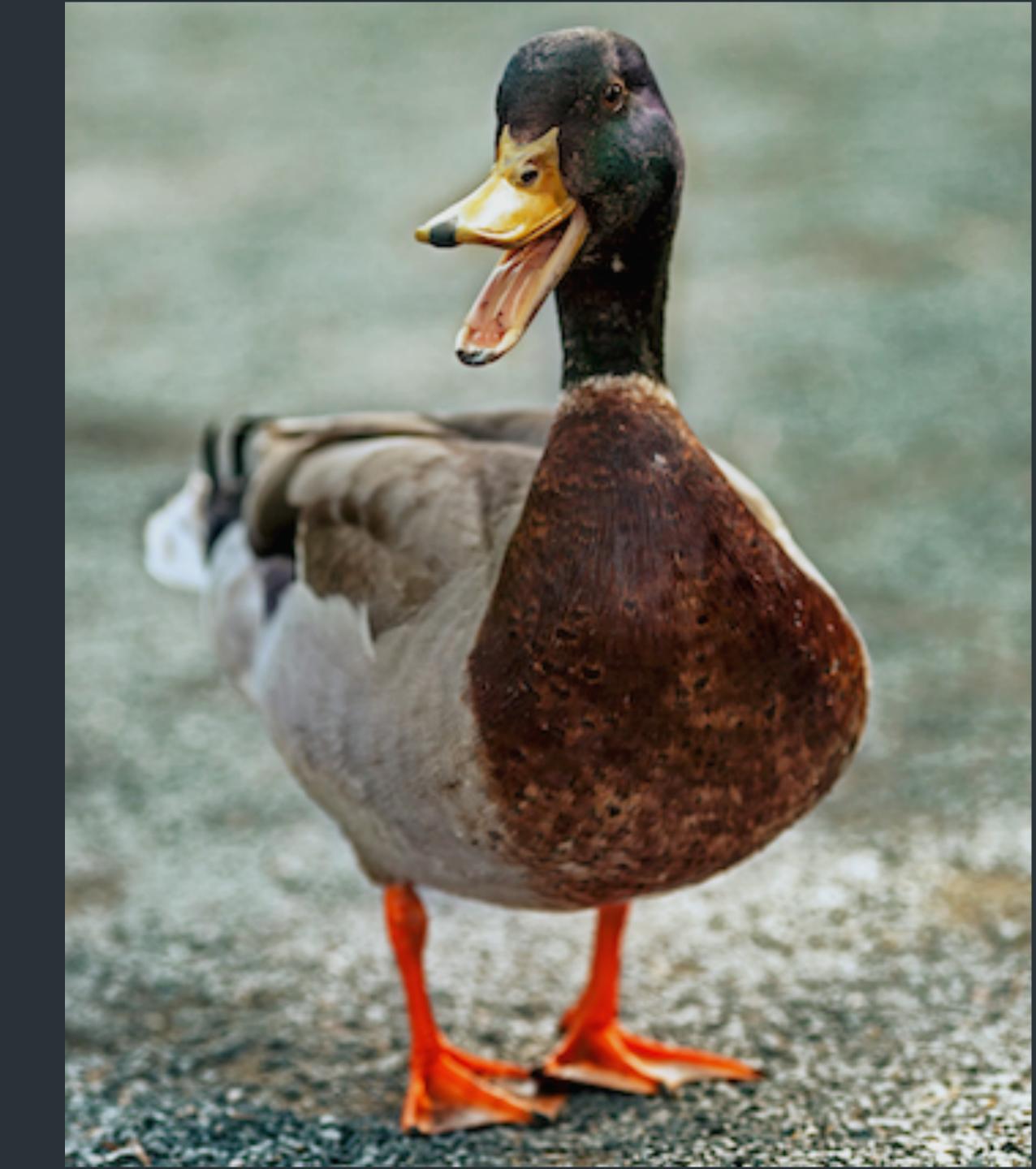
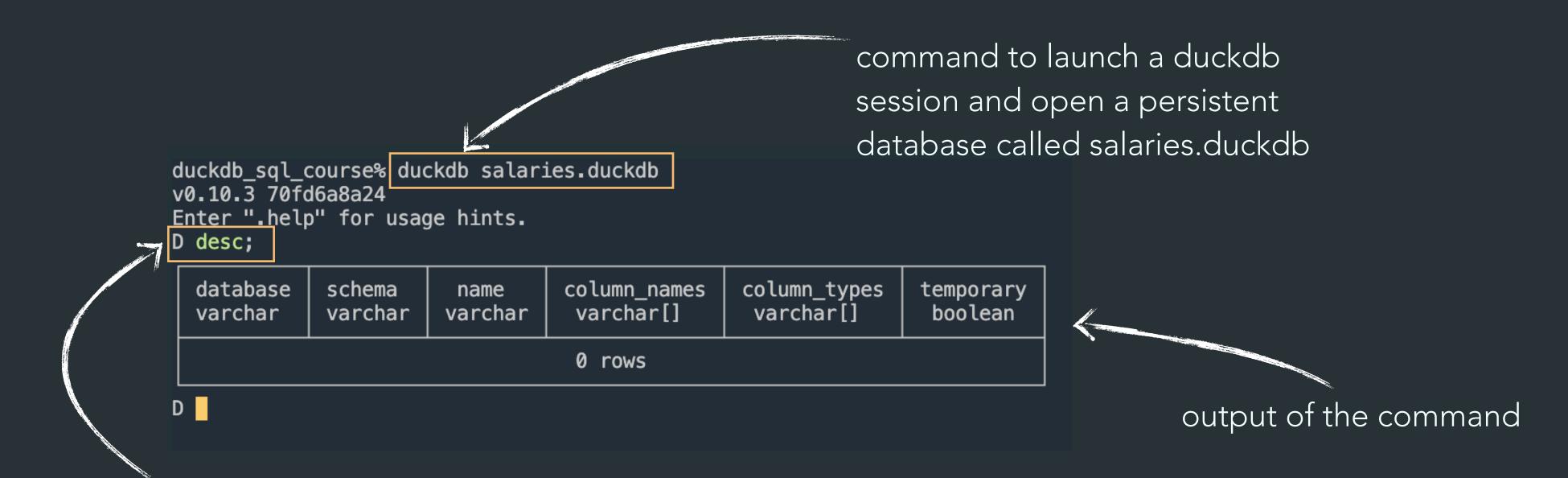
kokchun giang

navigating around in duckdb in command line tool and vscode

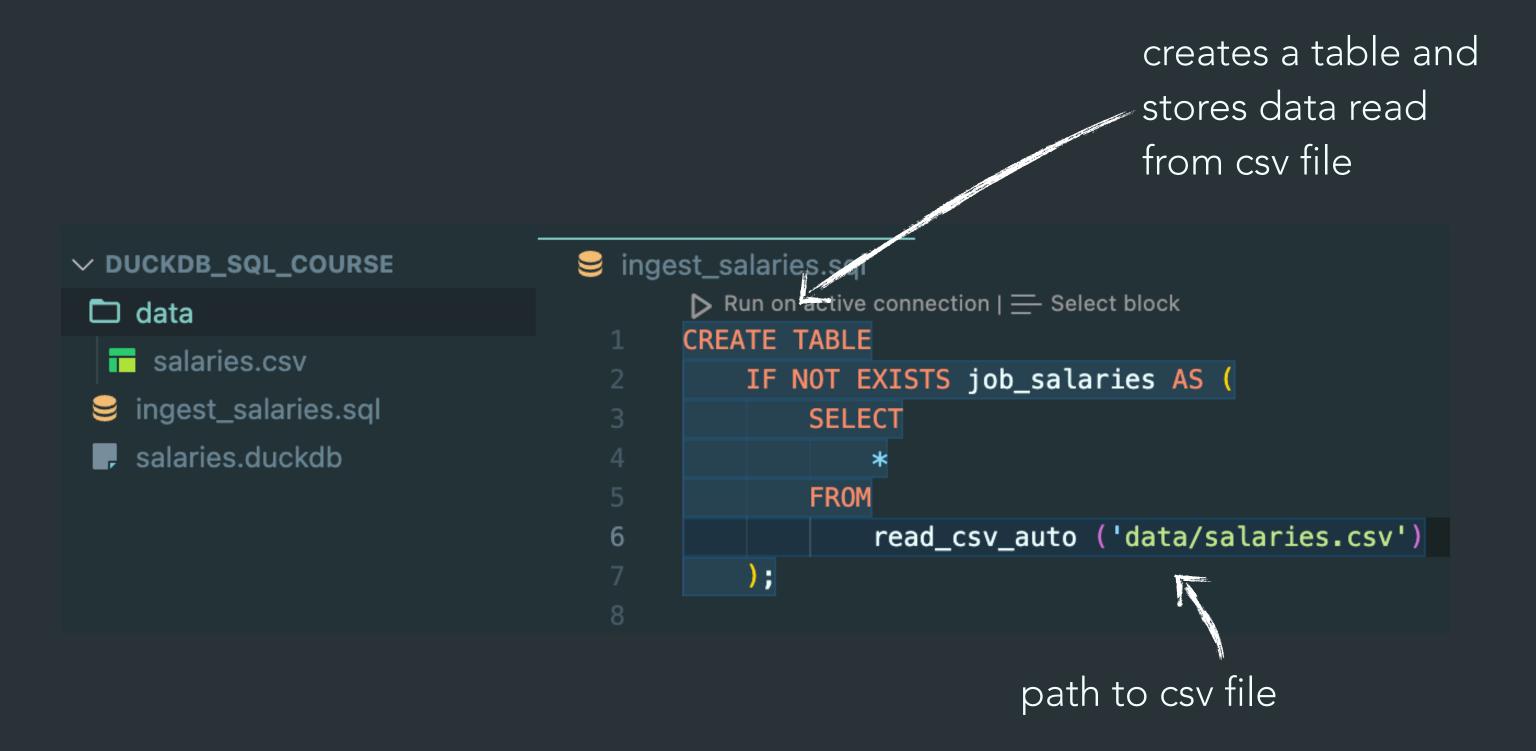


the interactive command line interface of duckdb



interactive CLI accepts SQL commands and duckdb specific commands

this **sql script** ingests data from a csv file into duckdb database



two different ways of running sql script in duckdb CLI

input redirection, takes content from ingest_salaries.sql as input

duckdb_sql_course% duckdb salaries.duckdb < ingest_salaries.sql
 duckdb_sql_course% duckdb salaries.duckdb
 v0.10.3 70fd6a8a24
 Enter ".help" for usage hints.
 D SELECT * FROM job_salaries;

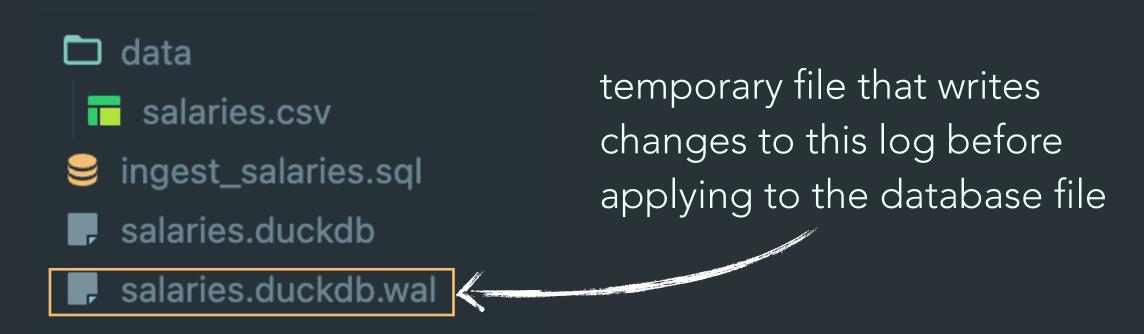
work_year	experience_level	employment_type	job
int64	varchar	varchar	va
2024 2024 2024 2024 2024 2024 2024 2024	SE SE SE SE SE MI MI EN EN EN SE SE SE SE	FT	AI Engineer AI Engineer Data Engineer Data Engineer Machine Learnin Machine Learnin ML Engineer Data Analyst Data Analyst Data Engineer Data Engineer NLP Engineer
2024	EX	FT	NLP Engineer
2024	MI	FT	Data Scientist

.read is a dot-command which requires an active session

duckdb_sql_course% duckdb salaries.duckdb v0.10.3 70fd6a8a24 Enter ".help" for usage hints. D .read ingest_salaries.sql D SELECT * FROM job_salaries;

work_year	experience_level	employment_type	jot
int64	varchar	varchar	va
2024 2024 2024 2024 2024 2024 2024 2024	SE SE SE SE SE MI MI EN EN SE SE SE SE	FT	AI Engineer AI Engineer Data Engineer Data Engineer Machine Learnir Machine Learnir ML Engineer Data Analyst Data Analyst Data Engineer Data Engineer NLP Engineer

the write-ahead log .wal file maintains data integrity and recoverability



wal file created when the database changes like in INSERT, UPDATE or DELETE operations

ensures ACID compliance to get data integrity duckdb can use .wal file to restore database in case of crash disappears after clean shutdown of duckdb session e.g. when you do ctrl+c or cmd+d