Lecture 24

THE NORTHCAP UNIVERSITY

Practice Queries

30 YEARS OF EXCELLENCE

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BANK Database for Practice Queries

- *branch*(*branch_name*, *branch_city*, *assets*)
- *customer* (*customer_name*, *customer_street*, *customer_city*)
- *loan* (*loan_number*, *branch_name*, *amount*)
- *borrower* (*customer_name*, *loan_number*)
- *account* (*account_number*, *branch_name*, *balance*)
- *depositor* (*customer_name*, *account_number*)

Practice Queries on BANK Database

1) Find the names of all branches located in “Chicago”.
2) Find the names of all borrowers who have a loan in branch “Downtown”.
3) Find all loan numbers with a loan value greater than $10,000.
4) Find the names of all depositors who have an account with a value greater than $6,000.
5) Find the names of all depositors who have an account with a value greater than $6,000 at the “Uptown” branch.

UNIVERSITY Database for Practice Queries

- Classroom (building, room_number, capacity)
- Department (dept_name, building, budget)
- Course (course_id, title, dept_name, credits)
- Instructor (ID, name, dept_name, salary)
- Section (course_id, sec_id, semester, year, building, room_number, time_slot_id)
- Teaches (ID, course_id, sec_id, semester, year)
- Student (ID, name, dept_name, tot_cred)
- Takes (ID, course_id, sec_id, semester, year, grade)
- Advisor (s_ID, i_ID)
- Time _Slot (time slot_id, day, start_time, end_time)
- Prereq (course_id, prereq_id)

Practice Queries on UNIVERSITY Database

What is the output of following expressions:

1) $\sigma_{sid=ID}(student \times advisor)$

2) $year \geq 2009(takes) \bowtie student$

3) $year \geq 2009(takes \bowtie student)$

4) $\pi_{ID,name,course\ id}(student \bowtie takes)$

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Thanks!!

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