

Data grip screen dumps

1. What is the name of the student with CWID='10115'

The screenshot shows the DataGrip interface with a SQL query executed in the console. The query is:

```
1 select Name from students
2 where CWID = '10115'
```

The result set, titled 'main.students', shows one row:

| Name |
|------------|
| 1 Bezos, J |

The left sidebar shows the database structure for 'StudentRepo.db' with schemas 'main' containing tables 'grades', 'instructor', and 'majors'. The bottom panel shows a list of queries with their execution times.

2. What is the total number of students by major?

The screenshot shows the DataGrip interface with a SQL query executed in the console. The query is:

```
1 select major, count(*) as Student_count from students
2 group by major
```

The result set, titled 'Result 2', shows two rows:

| Major | Student_count |
|--------|---------------|
| 1 CS | 1 |
| 2 SFEN | 3 |

The left sidebar shows the database structure for 'StudentRepo.db' with schemas 'main' containing tables 'grades', 'instructor', and 'majors'. The bottom panel shows a list of queries with their execution times.

3. What is the most frequent grade for SSW 810 across all students?

The screenshot shows a SQL IDE window titled 'default - Query3 [StudentRepo.db] - DataGrip'. The query editor contains the following SQL code:

```
select Grade, count(*) as Most_freq_grade from grades
where Course = 'SSW 810'
group by Grade limit 1
```

The 'Services' panel on the left shows a tree view of the database 'StudentRepo.db' with folders for 'schemas', 'main', 'grades', 'instruct', and 'main'. The 'Output' panel on the right shows the results of the query, which is a single row with the grade 'A' and a count of 2.

| Grade | Most_freq_grade |
|-------|-----------------|
| A | 2 |

4. Display the name and cwid of each student along with the total number of courses taken by the student.

The screenshot shows a SQL IDE window titled 'default - Query4 [StudentRepo.db] - DataGrip'. The query editor contains the following SQL code:

```
select a.Name, a.CWID, count(course) as Total_Course_Count
from students as a
join grades as b on a.CWID = b.StudentCWID
group by a.Name
```

The 'Services' panel on the left shows a tree view of the database 'StudentRepo.db' with folders for 'schemas', 'main', 'grades', 'instruct', and 'main'. The 'Output' panel on the right shows the results of the query, which are 4 rows of student data.

| Name | CWID | Total_Course_Count |
|------------|-------|--------------------|
| 1 Bezos, J | 10115 | 2 |
| 2 Gates, B | 11714 | 3 |
| 3 Jobs, S | 10103 | 2 |
| 4 Musk, E | 10183 | 2 |

5. Display each student's name, CWID, course, grade, and the instructor's name for all students and grades

The screenshot shows a database IDE with the following components:

- Database Consoles:** Shows the active query 'Query5 [StudentRepo.db]' with the following SQL code:

```
select a.Name, a.CWID, b.Course, b.Grade, c.Name from students as a
join grades as b on a.CWID = b.StudentCWID
join instructors as c on c.CWID = b.InstructorCWID
group by a.Name, a.CWID, b.Course, b.Grade
order by a.Name
```
- Database Explorer:** Shows the 'StudentRepo.db' database structure with schemas, tables (main, grades, instructo, majors, sqlite_m, student), and collations.
- Services:** Shows a list of queries and their execution times:
 - Query4: 57 ms
 - Query3: 48 ms
 - Query5: 84 ms
 - console: 58 ms
 - Query2: 39 ms
- Output:** Displays the results of the query in a table with 9 rows and 5 columns: a.Name, CWID, Course, Grade, and c.Name.

| | a.Name | CWID | Course | Grade | c.Name |
|---|----------|-------|---------|-------|------------|
| 1 | Bezos, J | 10115 | CS 546 | F | Hawking, S |
| 2 | Bezos, J | 10115 | SSW 810 | A | Rowland, J |
| 3 | Gates, B | 11714 | CS 546 | A | Cohen, R |
| 4 | Gates, B | 11714 | CS 570 | A- | Hawking, S |
| 5 | Gates, B | 11714 | SSW 810 | B- | Rowland, J |
| 6 | Jobs, S | 10103 | CS 501 | B | Hawking, S |
| 7 | Jobs, S | 10103 | SSW 810 | A- | Rowland, J |
| 8 | Musk, E | 10183 | SSW 555 | A | Rowland, J |
| 9 | Musk, E | 10183 | SSW 810 | A | Rowland, J |