

All Together Now (Revised)

The screenshot shows a web browser with multiple tabs. The active tab is 'campus.datacamp.com/courses/intermediate-sql/sorting-and-grouping-4?ex=12'. The page displays an exercise titled 'All together now' with instructions and a SQL editor. The instructions are as follows:

- 1. Select the `release_year` for each film in the `films` table, filter for records released after 1990, and group by `release_year`.
- 2. Modify the query to include the average `budget` aliased as `avg_budget`, and average `gross` aliased as `avg_gross` for the results we have so far.
- 3. Modify the query once more so that only years with an average budget of greater than 60 million are included.
- 4. Finally, order the results from the highest average gross and limit to one.

The SQL editor on the right shows the following query:

```
1 -- Select the release_year for films released after 1990 grouped by year
2
```

The query result section shows 'No query executed yet...'. The bottom of the screen shows a Windows taskbar with the date 28/11/2024 and time 15:28.

It's time to use much of what you've learned in one query! This is good preparation for using SQL in the real world where you'll often be asked to write more complex queries since some of the basic queries can be answered by playing around in spreadsheet applications.

In this exercise, you'll write a query that returns the average budget and gross earnings for films each year after 1990 if the average budget is greater than 60 million.

Answer for Each Instruction

Instruction 1: Select the `release_year` for each film in the `films` table, filter for records released after 1990, and group by `release_year`.

SQL Query:

```
SELECT release_year
```

```
FROM films
```

```
WHERE release_year > 1990
```

```
GROUP BY release_year;
```

Instruction 2: Modify the query to include the average budget aliased as avg_budget and average gross aliased as avg_gross for the results we have so far.

SQL Query:

```
SELECT release_year,  
       AVG(budget) AS avg_budget,  
       AVG(gross) AS avg_gross  
FROM films  
WHERE release_year > 1990  
GROUP BY release_year;
```

Instruction 3: Modify the query once more so that only years with an average budget of greater than 60 million are included.

SQL Query:

```
SELECT release_year,  
       AVG(budget) AS avg_budget,  
       AVG(gross) AS avg_gross  
FROM films  
WHERE release_year > 1990  
GROUP BY release_year  
HAVING AVG(budget) > 60000000;
```

Instruction 4: Finally, order the results from the highest average gross and limit to one.

SQL Query:

```
SELECT release_year,  
       AVG(budget) AS avg_budget,  
       AVG(gross) AS avg_gross  
FROM films  
WHERE release_year > 1990  
GROUP BY release_year  
HAVING AVG(budget) > 60000000  
ORDER BY avg_gross DESC  
LIMIT 1;
```

