

## GROUP BY Single Fields

The screenshot shows a web application for an SQL exercise. The sidebar on the left contains the following instructions:

- 1. Select the 'release\_year' and count of films released in each year aliased as 'film\_count'.
- 2. Select the 'release\_year' and average duration aliased as 'avg\_duration' of all films, grouped by 'release\_year'.

The main area on the right contains a SQL editor with the following queries:

```
1 -- Find the release_year and film_count of each year
2 --
```

Below the editor is a 'Run Code' button and a 'Submit Answer' button. The results pane at the bottom shows 'No query executed yet...'. The interface also includes a 'Course Outline' button and a 'Daily XP 300' indicator.

### Question

1. Select the release\_year and count of films released in each year aliased as film\_count.
2. Select the release\_year and average duration aliased as avg\_duration of all films, grouped by release\_year.

### Answer

-- Step 1: Find the release\_year and film\_count of each year

```
SELECT release_year, COUNT(*) AS film_count
```

```
FROM films
```

```
GROUP BY release_year;
```

-- Step 2: Find the release\_year and avg\_duration of films grouped by release\_year

```
SELECT release_year, AVG(duration) AS avg_duration
```

```
FROM films
```

```
GROUP BY release_year;
```

### Code Explanation

1. SELECT release\_year, COUNT(\*) AS film\_count FROM films GROUP BY release\_year:

- SELECT release\_year: Selects the release\_year column.

- COUNT(\*): Counts the number of films for each release year.
- AS film\_count: Assigns the alias 'film\_count' to the count result.
- GROUP BY release\_year: Groups the rows by the release year to aggregate the count.

2. SELECT release\_year, AVG(duration) AS avg\_duration FROM films  
GROUP BY release\_year:

- SELECT release\_year: Selects the release\_year column.
- AVG(duration): Calculates the average duration of films for each release year.
- AS avg\_duration: Assigns the alias 'avg\_duration' to the average result.
- GROUP BY release\_year: Groups the rows by the release year to calculate the average.