# Paweł Szwarnowski, L2, AiBD, grupa czw. 10:15

# Zad. 1 Kod: SELECT \* FROM category Odpowiedź: 16 Zad. 2 Kod: SELECT category\_id, name FROM category ORDER BY name Odpowiedź: (1, 'Action') (2, 'Animation') (3, 'Children') (4, 'Classics') (5, 'Comedy') (6, 'Documentary') (7, 'Drama') (8, 'Family') (9, 'Foreign') (10, 'Games') (11, 'Horror') (12, 'Music') (13, 'New') (14, 'Sci-Fi') (15, 'Sports')

# Zad. 3

(16, 'Travel')

## Kod:

SELECT film\_id, title, release\_year FROM film ORDER BY release\_year ASC LIMIT 1

SELECT film\_id, title, release\_year FROM film ORDER BY release\_year DESC LIMIT 1

## Odpowiedź:

Każdy z filmów został wydany w 2006 roku, więc nie da się wskazać jednego najnowszego, ani jednego najstarszego filmu. Wynik zwrócony przez polecenia SELECT:

Najstarszy film: (133, 'Chamber Italian', 2006)

Najmłodszy film: (133, 'Chamber Italian', 2006)

## Zad. 4

#### Kod:

```
start_time = datetime.datetime(2005, 7, 1, 0, 0, 0)
end_time = datetime.datetime(2005, 8, 1, 23, 59, 59)
result_set = db.execute(f"SELECT * FROM rental WHERE rental_date >= '{start_time}' AND
rental_date <= '{end_time}'")</pre>
```

## Odpowiedź:

Liczba wypożyczeń między 2005-07-01 a 2005-08-01: 7380

# Zad. 5

# Kod:

```
start_time = datetime.datetime(2010, 1, 1, 0, 0, 0)
end_time = datetime.datetime(2011, 2, 1, 23, 59, 59)
result_set = db.execute(f"SELECT * FROM rental WHERE rental_date >= '{start_time}' AND
rental_date <= '{end_time}'")</pre>
```

## Odpowiedź:

Liczba wypożyczeń między 2010-01-01 a 2011-02-01: 0

## Zad. 6

## Kod:

result\_set = db.execute("SELECT payment\_id, amount FROM payment ORDER BY amount DESC LIMIT 1")

## Odpowiedź:

Największa płatność wypożyczenia: (20403, Decimal('11.99'))

## Zad. 7

#### Kod:

```
result_set = db.execute("SELECT country_id,country FROM country WHERE country IN ('Poland', 'Nigeria', 'Bangladesh')")
for r in result_set:
```

```
cities = db.execute(f"SELECT city_id, city FROM city WHERE country_id = {r.country_id}")
cities_id = tuple(c.city_id for c in cities)
addresses = db.execute(f"SELECT address_id FROM address WHERE city_id IN {cities_id}")
addresses_id = tuple(a.address_id for a in addresses)
customers = db.execute(f"SELECT * FROM customer WHERE address_id IN {addresses_id}")
```

## Odpowiedź:

#### Customers from Bangladesh:

- (21, 1, 'Michelle', 'Clark', 'michelle.clark@sakilacustomer.org', 25, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (329, 2, 'Frank', 'Waggoner', 'frank.waggoner@sakilacustomer.org', 334, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (332, 1, 'Stephen', 'Qualls', 'stephen.qualls@sakilacustomer.org', 337, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)

#### Customers from Nigeria:

- (18, 2, 'Carol', 'Garcia', 'carol.garcia@sakilacustomer.org', 22, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (80, 1, 'Marilyn', 'Ross', 'marilyn.ross@sakilacustomer.org', 84, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (103, 1, 'Gladys', 'Hamilton', 'gladys.hamilton@sakilacustomer.org', 107, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (156, 1, 'Bertha', 'Ferguson', 'bertha.ferguson@sakilacustomer.org', 160, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (198, 2, 'Elsie', 'Kelley', 'elsie.kelley@sakilacustomer.org', 202, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (232, 2, 'Constance', 'Reid', 'constance.reid@sakilacustomer.org', 236, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (250, 2, 'Jo', 'Fowler', 'jo.fowler@sakilacustomer.org', 254, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (277, 2, 'Olga', 'Jimenez', 'olga.jimenez@sakilacustomer.org', 282, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)

- (280, 2, 'Tracey', 'Barrett', 'tracey.barrett@sakilacustomer.org', 285, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (284, 1, 'Sonia', 'Gregory', 'sonia.gregory@sakilacustomer.org', 289, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (286, 1, 'Velma', 'Lucas', 'velma.lucas@sakilacustomer.org', 291, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (409, 2, 'Rodney', 'Moeller', 'rodney.moeller@sakilacustomer.org', 414, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (562, 1, 'Wallace', 'Slone', 'wallace.slone@sakilacustomer.org', 568, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)

#### Customers from Poland:

- (128, 1, 'Marjorie', 'Tucker', 'marjorie.tucker@sakilacustomer.org', 132, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (270, 1, 'Leah', 'Curtis', 'leah.curtis@sakilacustomer.org', 275, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (318, 1, 'Brian', 'Wyman', 'brian.wyman@sakilacustomer.org', 323, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (380, 1, 'Russell', 'Brinson', 'russell.brinson@sakilacustomer.org', 385, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (501, 1, 'Ruben', 'Geary', 'ruben.geary@sakilacustomer.org', 506, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (558, 1, 'Jimmie', 'Eggleston', 'jimmie.eggleston@sakilacustomer.org', 564, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 0)
- (571, 2, 'Johnnie', 'Chisholm', 'johnnie.chisholm@sakilacustomer.org', 577, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)
- (572, 1, 'Sidney', 'Burleson', 'sidney.burleson@sakilacustomer.org', 578, True, datetime.date(2006, 2, 14), datetime.datetime(2013, 5, 26, 14, 49, 45, 738000), 1)

## Zad. 8

#### Kod:

result\_set = db.execute("SELECT address\_id FROM staff")
addresses\_id = tuple(a.address\_id for a in result\_set)
addresses = db.execute(f"SELECT address, district FROM address WHERE address\_id IN
{addresses\_id}")

#### Odpowiedź:

('23 Workhaven Lane', 'Alberta')

('1411 Lillydale Drive', 'QLD')

## 7ad. 9

#### Kod:

```
result_set = db.execute("SELECT address_id FROM staff")
addresses_id = tuple(a.address_id for a in result_set)
addresses = db.execute(f"SELECT city_id FROM address WHERE address_id IN {addresses_id}")
cities_id = tuple(a.city_id for a in addresses)
cities = db.execute(f"SELECT country_id FROM city WHERE city_id IN {cities_id}")
countries_id = tuple(c.country_id for c in cities)
countries = db.execute(f"SELECT country FROM country WHERE country_id IN {countries_id} AND
country IN ('Argentina', 'Spain')")
```

## Odpowiedź:

Liczba pracowników z Argentyny i Hiszpanii (łącznie): 0

## 7ad. 10

## Kod:

```
result_set = db.execute("SELECT return_date, inventory_id FROM rental")

not_returned = tuple(r.inventory_id for r in result_set if r.return_date is None)

film = db.execute(f"SELECT film_id FROM inventory WHERE inventory_id IN {not_returned}")

film_id = tuple(f.film_id for f in film)

category = db.execute(f"SELECT category_id FROM film_category WHERE film_id IN {film_id}")

category_id = tuple(c.category_id for c in category)

names = db.execute(f"SELECT name FROM category WHERE category_id IN {category_id}")
```

#### Odpowiedź:

Wypożyczone kategorie filmów:

Action

Animation

Children

Classics

Comedy

**Documentary** 

Drama
Family
Foreign
Games
Horror
Music
New
Sci-Fi
Sports
Travel

## Zad. 11

#### Kod:

```
result set = db.execute("SELECT country id FROM country WHERE country IN ('United States', 'Virgin
Islands, U.S.', 'Canada', 'Argentina', 'Bolivia', 'Brazil', 'Canada', 'Chile', 'Colombia', 'Dominican
Republic', 'Ecuador', 'French Guiana', 'Greenland', 'Mexico', 'Paraguay', 'Peru', 'Puerto Rico', 'Saint
Vincent and the Grenadines', 'Venezuela')")
america_id = tuple(r.country_id for r in result_set)
cities = db.execute(f"SELECT city_id, city FROM city WHERE country_id IN {america_id}")
cities id = tuple(c.city id for c in cities)
addresses = db.execute(f"SELECT address_id FROM address WHERE city_id IN {cities_id}")
addresses_id = tuple(a.address_id for a in addresses)
stores = db.execute(f"SELECT store id FROM store WHERE address id IN {addresses id}")
store_id = tuple(s.store_id for s in stores)
staff = db.execute(f"SELECT staff_id FROM staff WHERE store_id IN (" + str(store_id[0]) + ")")
staff id = tuple(s.staff id for s in staff)
inventory = db.execute(f"SELECT inventory_id FROM rental WHERE staff_id IN (" + str(staff_id[0]) +
inventory id = tuple(r.inventory id for r in inventory)
film = db.execute(f"SELECT film_id FROM inventory WHERE inventory_id IN {inventory_id}")
film_id = tuple(f.film_id for f in film)
category = db.execute(f"SELECT category id FROM film category WHERE film id IN {film id}")
category id = tuple(c.category id for c in category)
names = db.execute(f"SELECT name FROM category WHERE category_id IN {category_id}")
```

## Odpowiedź:

Action

Animation Children Classics Comedy Documentary Drama Family Foreign Games Horror Music New Sci-Fi **Sports** Travel Zad. 12 Kod: result\_set = db.execute("SELECT actor\_id, first\_name, last\_name FROM actor WHERE first\_name='Olympia' AND last\_name='Pfeiffer' OR first\_name='Julia' AND last\_name='Zellweger' OR first\_name='Ellen' AND last\_name='Presley'") # actor\_id = tuple(r.actor\_id for r in result\_set) for actor in result\_set: film = db.execute(f"SELECT film\_id FROM film\_actor WHERE actor\_id={actor.actor\_id}") film id = tuple(f.film id for f in film) film\_titles = db.execute(f"SELECT title FROM film WHERE film\_id IN {film\_id}") Odpowiedź: Tytuły filmów, w których grał/-a Ellen Presley: Bilko Anonymous Caribbean Liberty

Casper Dragonfly

**Empire Malkovich** 

Floats Garden
Frogmen Breaking
Homeward Cider
Hyde Doctor
Image Princess
Jacket Frisco
Microcosmos Paradise
Network Peak
Oscar Gold
Pickup Driving
Pinocchio Simon
Private Drop
Roots Remember
Scarface Bang
Secretary Rouge
Spy Mile
Streetcar Intentions
Tadpole Park
Treasure Command
Turn Star
Women Dorado
Tytuły filmów, w których grał/-a Olympia Pfeiffer:
Badman Dawn
Chitty Lock
Color Philadelphia
Contact Anonymous
Deep Crusade
Effect Gladiator
Express Lonely

Firehouse Vietnam
Fugitive Maguire
Hanky October
Idols Snatchers
Ice Crossing
Intolerable Intentions
Mars Roman
Magnolia Forrester
Maude Mod
Murder Antitrust
None Spiking
Others Soup
Psycho Shrunk
Santa Paris
Sense Greek
Storm Happiness
Sweet Brotherhood
Titanic Boondock
Tourist Pelican
Traffic Hobbit
Wait Cider
Tytuły filmów, w których grał/-a Julia Zellweger:
Breakfast Goldfinger
Cranes Reservoir
Dares Pluto
Detective Vision
Divorce Shining
Hollow Jeopardy
Jeopardy Encino

Lambs Cincinatti

Majestic Floats

Minds Truman

Open African

Outlaw Hanky

Panky Submarine

Rider Caddyshack

Won Dares

Wyoming Storm