Heimadæmi 8 - Gagnasafnsfræði

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1.

```python
import sqlite3

conn = sqlite3.connect("company.db")

cursor = conn.cursor()

cursor.execute("SELECT sum(Salary) FROM EMPLOYEE")

(result,) = cursor.fetchone()

print(result)

cursor.close()
conn.close()
```
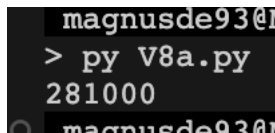

2.

```python
import sqlite3

conn = sqlite3.connect("company.db")
cursor = conn.cursor()

update_query = "UPDATE EMPLOYEE SET Salary = Salary + 100 WHERE SSN = ?"

cursor.execute("SELECT SSN FROM EMPLOYEE")
ssns = cursor.fetchall()

for ssn in ssns:
    cursor.execute(update_query, (ssn[0],))

conn.commit()
cursor.close()
conn.close()
```

3.

```python
import sqlite3

conn = sqlite3.connect("company.db")
cursor = conn.cursor()

update_query = "UPDATE EMPLOYEE SET Salary = Salary + 100 WHERE SSN = ?"

cursor.execute("UPDATE EMPLOYEE SET Salary = (Salary*1.02)")

conn.commit()
cursor.close()
conn.close()
```

4.

```
> java -cp sqlite-jdbc-3.43.0.0.jar:. JDBC1
Enter a Social Security Number: 888665555
Borg 56202.0

> py V8a.py
287436
```