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CDS 302-DL2  
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Assignment 2

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## Problem 1.1

Code:

```
SELECT course_id  
FROM course
```

Answer:

BIO-101
BIO-301
CDS-101
CDS-130
CDS-302
CDS-303
GGG-101
HIS-101
MAT-110
MAT-114
MUS-100
PHY-101
PHY-403

## Problem 1.2

Code:

```
SELECT name  
FROM instructor
```

Answer:

Turing
Widom
Mozart
Heraclitus
Eratosthenes
Crick
Newton
Euler
Euclid

### Problem 1.3

Code:

```
SELECT title, dept_name
FROM course
WHERE course_id = 'HIS-101'
```

Answer:

History of Western Civilization	History
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### Problem 1.4

Code:

```
SELECT name, salary
FROM instructor
WHERE instructor.ID = 12345 or
instructor.ID = 54321
```

Answer:

Eratosthenes	55000
Crick	88000

### Problem 1.5

Code:

```
SELECT section.course_id
FROM section
WHERE section.building = 'Innovation Hall'
```

Answer:

CDS-130
CDS-302
CDS-302
PHY-403
PHY-403

A total of 5 sections are in the building  
'Innovation Hall'

### Problem 1.6

Code:

```
SELECT DISTINCT building
FROM classroom
WHERE capacity = 20
```

Answer:

Exploratory Hall
Innovation Hall
Research Hall

### Problem 1.7

Code:

```
SELECT DISTINCT building, course_id
FROM section
WHERE building LIKE '%Hall%'
```

Answer:

Research Hall	CDS-101
Innovation Hall	CDS-130
Innovation Hall	CDS-302
Exploratory Hall	GGs-101
Exploratory Hall	BIO-101
Innovation Hall	PHY-403
Research Hall	MAT-114

## Problem 1.8

Code:

```
SELECT max(tot_cred)
FROM student
```

Answer:

110
-----

## Problem 1.9

### Problem 1.9.1

Code:

```
SELECT *
FROM course
WHERE title='Databases'
```

Answer:

CDS-302	Databases	CDS	3
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### Problem 1.9.2

Code:

```
SELECT ID
FROM takes
WHERE course_id = 'CDS-302'
```

Answer:

00001
00002
00007
00008
00009

Total: 5 Students take CDS-302

## Problem 1.10

Code:

```
SELECT count(ID)
FROM takes
WHERE course_id = 'CDS-302'
```

Answer:

5
---

## Problem 1.11

Code:

```
SELECT course_id, sec_id, year, day,
start_hr, end_hr
FROM section as S, timeslot as T
WHERE year = 2019 and day = 'T' and end_hr
< 12
```

Answer:

BIO-101	2	2019	T	10	11
CDS-101	1	2019	T	8	9
CDS-101	1	2019	T	10	11
CDS-130	1	2019	T	8	9
CDS-130	1	2019	T	10	11
CDS-302	1	2019	T	8	9
CDS-302	1	2019	T	10	11
CDS-302	2	2019	T	8	9
CDS-302	2	2019	T	10	11
GGG-101	1	2019	T	8	9
GGG-101	1	2019	T	10	11
HIS-101	1	2019	T	8	9
HIS-101	1	2019	T	10	11
MAT-114	2	2019	T	8	9
MAT-114	2	2019	T	10	11
MUS-100	1	2019	T	8	9
MUS-100	1	2019	T	10	11
PHY-403	1	2019	T	8	9
PHY-403	1	2019	T	10	11