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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 |
| GGS-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 |

# 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 |

## 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 |
| GGS-101 | 1 | 2019 | T | 8 | 9 |
| GGS-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 |