EXERCISE :SELECTS

ANSWERS

Select Literal Values

1. Write a SELECT query that uses the string "All for one, and one for all."

SELECT 'All for one, and one for all.' AS Quote;

2. Write a SELECT query that uses the CONCAT function to combine "All for one," and "and one for all."

SELECT CONCAT('All for one, ', 'and one for all.')

3. Write a SELECT query that adds 6 and 6.

SELECT 6 + 6

4. Write a SELECT query that divides 5 by 2.

SELECT 5 / 2

5. Write a SELECT query that divides 5.0 by 2.0.

SELECT 5.0 / 2.0

6. Write a SELECT query with 2 values - 6 divided by 4 and the remainder.

SELECT

6 / 4 AS Quotient,

6 % 4 AS Remainder;

7. Write a SELECT query for 6 squared.

SELECT 6 \* 6

Select Against Tables

1. Select all the rows from the Building table.

|  |  |
| --- | --- |
| # BuildingID | BuildingName |
| '1' | 'Main Campus' |
| '2' | 'Vocational Tech Campus' |

2. What are the period name, start, and end times?

|  |  |  |
| --- | --- | --- |
| # PeriodName | StartTime | EndTime |
| '1st Period' | '08:00:00' | '08:45:00' |
| '2nd Period' | '09:00:00' | '09:45:00' |
| '3rd Period' | '10:00:00' | '10:45:00' |
| '4th Period' | '11:00:00' | '11:45:00' |
| '5th Period' | '12:00:00' | '12:45:00' |
| '6th Period' | '13:00:00' | '13:45:00' |
| '7th Period' | '14:00:00' | '14:45:00' |
| '8th Period' | '15:00:00' | '15:45:00' |

3. Which table is empty?

Grade

4. List all courses and credit hours in the format: CourseName (CreditHours)

|  |  |
| --- | --- |
| # CourseName | CreditHours |
| 'English 1' | '3.00' |
| 'English 2' | '3.00' |
| 'English 3' | '3.00' |
| 'AP English' | '3.00' |
| 'Algebra 1' | '4.00' |
| 'Geometry' | '4.00' |
| 'Algebra 2' | '4.00' |
| 'Statistics' | '3.00' |
| 'Calculus' | '4.00' |
| 'Biology' | '4.00' |
| 'Chemistry' | '4.00' |
| 'Anatomy' | '4.00' |
| 'Geology' | '4.00' |
| 'Art 1' | '3.00' |
| 'Art 2' | '3.00' |
| 'Choir' | '3.00' |
| 'Band' | '3.00' |
| 'Theater' | '3.00' |
| 'European History' | '3.00' |
| 'American History' | '3.00' |
| 'African History' | '3.00' |
| 'Middle Eastern History' | '3.00' |
| 'Asian History' | '3.00' |

5. What are the teachers' full names (first names and last initials) for the first five teachers?

|  |
| --- |
| # FullName |
| 'Michail E.' |
| 'Sybille S.' |
| 'Salomi A.' |
| 'Amil B.' |
| 'Dimitri D.' |

6. How many rooms are there?

13

7. RoomNumber is an integer type. What is the range of room numbers? (Hint: Consider BuildingID too.)

|  |  |  |
| --- | --- | --- |
| # BuildingID | LowestRoom | HighestRoom |
| '1' | '100' | '204' |
| '2' | '100' | '101' |

8. Examine the Description field of the Room table. What are your observations of the description field?

|  |
| --- |
| # Description |
| 'Gymnasium' |
| NULL |
| 'Chemistry Lab' |

9. How many unique SubjectIDs appear in the Course table?

5

10.How many grade types are there?

4

11. What are the IDs and Names of the grade types? (Hint: Name the columns appropriately in the ResultSet)

|  |  |
| --- | --- |
| # ID | GradeType |
| '1' | 'Homework' |
| '2' | 'Quiz' |
| '3' | 'Project' |
| '4' | 'Exam' |

12.What grade types appear in the GradeItem table?

1,2, 3,4

13.What grade types are not utilized in the GradeItem table? (Hint: You can't write a query for this yet. You have to utilize the previous queries.)

1,2