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?

6. How many rooms are there?

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

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

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

10.How many grade types are there?

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

12.What grade types appear in the GradeItem table? 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.)