



* 2
* 3
* 4
* 1

**Ans: b**

* **Find the SQL statements below that is equal to the following for the types of product may be – Goods, Services, Experiences, Convenience, Shopping, Specialty Goods, Industrial Goods and Consumer Goods.**

**SELECT city FROM salesman WHERE product = 'Services' OR product = 'Specialty Goods';**

**Q1. SELECT city FROM salesman WHERE product IN ('Services', 'Specialty Goods');**

**Q2. SELECT city FROM salesman WHERE product LIKE 'S%s';**

**Q3. SELECT city FROM salesman WHERE product LIKE 'S%' AND product LIKE '%s';**

**Q4. SELECT city FROM salesman WHERE product LIKE 'S%' OR product LIKE '%s';**

**a) Q1 only**

**b) Q1 and Q2**

**c) Q1, Q2 and Q3**

**d) All**

**Ans: C**

Consider the following relational schema along with functional dependencies:

**ProductDetails (ProdId, ProdName, Color, Cost, CategoryId, CategoryName)**

**ProdId -> ProdName;**

**{ProdId, Color} -> Cost;**

**ProdId -> CategoryId;**

**CategoryId -> CategoryName**

What would be the total number of relational schema/s after converting to 3NF?

A 1

B 2

C 3

D 4

**Ans-C**

* Find the number of suitable candidate key for the given table

|  |  |  |  |
| --- | --- | --- | --- |
| **T** | | | |
| **A** | **B** | **C** | **D** |
| a1 | b1 | c1 | d1 |
| a2 | b2 | c2 | d1 |
| a3 | b3 | c3 | d2 |
| a4 | b3 | c3 | d3 |
| a5 | b1 | c4 | d4 |

* 1
* 3
* 4
* 2

**Ans-b**

* Consider the following relation schema pertaining to a students database:  
    
  Student (rollno, name, address)  
  Enroll (rollno, courseno, coursename)  
    
  where the primary keys are rollno,courseno. The number of tuples in the Student and Enroll tables are 120 and 8 respectively. What are the maximum and minimum number of tuples that can be present in (Student \* Enroll), where '\*' denotes natural join ?

a.8, 0

b.120, 8

c.960, 8

d.960, 120

**Answer-a**

6.

Consider the following relations

How many rows will be returned by the execution of above query?

* 1
* 2
* 4
* 3

**Ans: a**

a

7.Consider the given relation





* Highest salary
* Third Highest salary
* Second Highest Salary
* None

**Ans: b**

8.Consider the relations given below:

How many rows will be fetched by the execution of above query?

* 2
* 3
* 1
* 4

**Ans: a**

9. Consider a table with attributes ID (Primary Key), DATE, AMOUNT, ACCOUNT, NAME and PAYMODE. Except ID no columns are unique. The table has three indexes as follows:

IDX1 – ID

IDX2 – ACCOUNT, AMOUNT

IDX3 – NAME, DATE

**Which of the following queries will result in a table scan?**

* WHERE NAME LIKE 'Ra%'
* WHERE AMOUNT = 10,500
* WHERE ID=1122
* WHERE BANK\_ACCT = '10101010'

**ANS- B**

10.



* 1
* 2
* 3
* 4

**ANSWER: b**