

A.Y.Dadabhai Technical Institute, Kosamba

Computer Engg. Department

Expert Lecture on Database management

System

Date : 12/10/2020

Computer Engineering Department of A.Y.Dadabhai Technical Institute, Kosamba has arranged an expert lecture on Relational Algebra & SQL **3rd semester** for students on **12th October 2020**. As per the Curriculum of 3rd Semester Diploma in Computer Engineering , students have to study basic structure of relational database,basic Relational Algebra & SQL in dbms,open source and commercial dbms etc . A.Y. Dadabhai Technical Institute is very much concerned about the Professional Development of each Student. Computer Engineering Department also takes regular steps to fulfill the Institute's vision and as well as Department's own vision. To pursue this vision Computer engineering Department organizes various Quiz Competition and Expert Lecture for Computer engineering Students. Mr.Vivek Joshi from Asst. Professor at Computer Engineering Department RINGPIT , Bardoli has shared his Experience Relational Algebra & SQL. He had spent 2 hours for the Expert lecture.

Now a day's Relational Algebra & SQL is a widely used procedural query language. It collects instances of relations as input and gives occurrences of relations as output. It uses various operations to perform this action. SQL Relational algebra query operations are performed recursively on a relation. Mr.Vivek Joshi . explain about The process of executing relational Algebra and SQL.

The Expert Lecture was very helpful to the Students. As they were able to know the things to which they were unknown till date. Students had also

asked some queries at the end of expert lecture and exaggerate their gratitude for the Expert Lecture planned by the Computer Department of the Institute.

Glimpse of Expert Lecture

Vivek Joshi is presenting

Meeting details

People (54) Chat

Add people

- vijay patil (You)
- Aadil Aglodiya
- Adil Umar
- Aditi Gupta
- Aditya Pandya
- Amrin Khan
- Anil Baraiya
- Anisha Qureshi

Outline

- Structure of Relational Databases
- Key
- Relational Algebra
 - Fundamental Operators and Syntax
 - Selection
 - Projection
 - Cross Product OR Cartesian Product
 - Joins
 - Set Operators
 - Division
 - Rename
 - Aggregate Functions
- Open Source and Commercial DBMS

Vivek Joshi Garasiya Fara... Aadil Aglodiya Saiyad Zainul... Hamza Shaikh Anil Baraiya Parth Patel

Vivek Joshi is presenting

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Learning Outcomes

- Explain Relational Algebra and it's notations.
- Derive the information using operations of Relational Algebra.
- Implement Set Operation using SQL
- Implement Joins.

Meeting details

Turn on captions

Vivek Joshi is presenting

Vivek Joshi is presenting

Amrin Khan and 24 more

11:42

Exercise

- Write down the relational algebra for the student table.
 - Display Rollno, Name and SPI of all students belongs to "CE" Branch.
 - List the Name of students with their Branch whose SPI is more than 8 and belongs to "CE" Branch.
 - List the Name of students along with their Branch and SPI who belongs to either "CE" or "ME" Branch and having SPI more than 8.
 - Display the Name of students with their Branch name whose SPI between 7 and 9.

Student			
RollNo	Name	Branch	SPI
101	Raj	CE	6
102	Meet	ME	8
103	Harsh	EE	7
104	Punit	CE	9

- Write down the relational algebra for the employee table.
 - Display the Name of employee belong to "HR" Dept and having salary more than 20000.
 - Display the Name of all "Admin" and "HR" Dept's employee.
 - List the Name of employee with their Salary who belongs to "HR" or "Admin" Dept having salary more than 15000.
 - Display the Name of employee along with their Dept name whose salary between 15000 and 30000.

Employee			
EmpID	Name	Dept	Salary
101	Nilesh	Sales	10000
102	Mayur	HR	25000
103	Hardik	HR	15000
104	Ajay	Admin	20000

Vivek Joshi is presenting

Relational Algebra Operations

Projection Operator

Meeting details

People (43)

Chat

01

Krushang Solanki 10:57
64

Ansu Solanki 10:58
63

Vivek Joshi 10:58
At any point you can unmute and ask doubts and query...

Falzan Patel 10:59
37

Saliyad Zainulabedin 11:05
51

Hamza Shaikh 11:09
57

Send a message to everyone

Vivek Joshi

ZiYa Hanslod

Garasiya Fara...

Prince Pandya

Panchbhaya A...

Sohail Khan

Ayaz Hanslod