NEW HORIZON
COLLEGE OF ENGINEERING
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DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Tel: 080 66297777, Extn: 2016 **hod_dca@newhorizonindia.edu**

REPORT ID: NHCE/MCA/RPT/EXPERT TALK/2026-27/001
TITLE OF THE REPORT: EXPERT TALK ON REAL-TIME DATABASE SYSTEMS FOR MODERN APPLICATIONS
DEPARTMENT: MCA
DATE: 14.11.2026
TIME: 09:00 AM TO 11:00 AM
VENUE: B 308, SARDAR VALLABHBHAI PATEL BLOCK
REPORT CATEGORY: EXPERT TALK
RESOURCE PERSON: Ms. BILASI LENKA J,
SAP INTEGRATION CONSULTANT,CAPGEMINI
PREPARED BY: Dr. A. KALAIVANI
APPROVED BY: Dr. V. ASHA

1. OBJECTIVE

The primary objective of the expert talk titled **"Real-Time Database Systems for Modern Applications"** was to provide MCA students with industry-oriented knowledge of real-time database systems, their architecture, and their role in building responsive, data-driven modern applications.

The specific objectives were:

- To introduce students to the fundamental concepts and characteristics of real-time database systems.
- To explain how real-time databases differ from conventional database management systems in terms of timing constraints, consistency, and data freshness.
- To familiarize students with real-time data synchronization, event-driven updates, and in-memory data processing.
- To provide insights into the use of real-time data in enterprise environments, including ERP and system-integration scenarios.
- To highlight practical applications of real-time databases in areas such as e-commerce, banking, IoT, logistics, chat, and live dashboards.
- To bridge the gap between academic database concepts and current industry practices.
- To create awareness of career opportunities in database technologies, enterprise integration, and SAP consulting.
- To encourage students to interact with an industry professional and clarify their doubts.

2. CONTEXT

As part of the Department of MCA's continuous efforts to strengthen industry–academia interaction and enhance students' technical competence, an expert talk titled **"Real-Time Database Systems for Modern Applications"** was organized on 14th November 2026 from 09:00 AM to 11:00 AM at B 308, Sardar Vallabhbhai Patel Block, New Horizon College of Engineering.

The session was delivered by **Ms. Bilasi Lenka J**, SAP Integration Consultant, who shared her industry experience on how real-time data is captured, stored, synchronized, and integrated across enterprise applications.

Database Management Systems form a core component of the MCA curriculum. While students learn the fundamentals of relational databases in the classroom, modern applications increasingly demand instant data availability, low latency, and continuous synchronization across systems. The expert talk was planned to expose students to these real-world requirements and to the technologies used to address them.

The programme was coordinated by Dr. A. Kalaivani, Senior Assistant Professor, Department of MCA, under the guidance of Dr. V. Asha, Professor and Head, Department of MCA, with the support of Dr. R. J. Anandhi, Vice Principal – Academics, and Dr. Manjunatha, Principal.

3. DATA SOURCE

The following records and evidence were used to document the event:

- Event approval.
- Event poster.
- Student attendance sheet.
- Resource person profile.
- Photographs taken during the session.
- Session notes and presentation content shared by the resource person.
- Feedback collected from the participating students.
- Observations of the faculty coordinator regarding student participation and interaction.

4. PARTICIPANT DETAILS

Target Participants

Students of the Master of Computer Applications (MCA) programme, [I Semester- B SECTION], New Horizon College of Engineering.

Participant Summary

Category	Count
MCA Students	37
Faculty Members	1
Resource Person	1
Total Participants	38

Resource Person

Ms. Bilasi Lenka J – SAP Integration Consultant,CAPGEMINI .

Departments Involved

- Department of Master of Computer Applications (MCA), New Horizon College of Engineering.

Faculty Involvement

Dr. A. Kalaivani, Senior Assistant Professor, Department of MCA, coordinated the event, and Dr. V. Asha, Professor and Head, Department of MCA, served as the convenor.

5. EXECUTION SUMMARY

The expert talk was conducted on 14th November 2026 from 09:00 AM to 11:00 AM at B 308, Sardar Vallabhbhai Patel Block, with the active participation of MCA students and faculty members.

The session was carried out through the following sequence:

1. **Welcome and Introduction:** The session began with a welcome address by Sanjana U, third semester student a formal introduction of the resource person, Ms. Bilasi Lenka J, to the students.
2. **Introduction to Real-Time Database Systems:** The resource person explained what real-time database systems are, how they differ from traditional databases, and why timing constraints, data freshness, and low latency are critical in modern applications.
3. **Architecture and Key Concepts:** Concepts such as hard and soft real-time constraints, in-memory databases, data synchronization, event-driven updates, caching, and consistency models were discussed with simple examples.
4. **Technologies and Tools:** Students were introduced to commonly used real-time data technologies such as cloud-based real-time databases, in-memory data stores, and enterprise in-memory platforms, along with their typical use cases.
5. **Enterprise and Integration Perspective:** Drawing on her experience as an SAP Integration Consultant, the speaker explained how real-time data flows between enterprise systems, and how integration ensures that business transactions are reflected instantly across applications.
6. **Real-World Applications:** Practical examples from domains such as e-commerce, banking and payments, logistics tracking, IoT monitoring, chat applications, and live analytics dashboards were discussed.
7. **Career Guidance:** The resource person shared insights on industry expectations, skills required for database and integration roles, and career opportunities in enterprise technologies.
8. **Interactive Q&A Session:** Students actively interacted with the speaker and clarified their doubts on database design, real-time systems, and career pathways.
9. **Vote of Thanks:** The session concluded with a vote of thanks and a token of appreciation presented to the resource person.

The students listened attentively throughout the session and participated actively in the discussion. The talk provided them with a clear understanding of how classroom database concepts are applied in real-time industrial systems.

6. ANALYSIS

The expert talk on "Real-Time Database Systems for Modern Applications" received a positive response from the participating MCA students. The session connected theoretical concepts of database management with real-time industrial applications, enabling students to appreciate how modern applications handle continuous data updates and instant information delivery.

The enterprise and integration perspective shared by the resource person was particularly valuable, as it gave students exposure to how large organizations manage real-time data across multiple systems. The real-world examples helped students relate the concepts to applications they use in daily life.

Feedback is being collected from the participating students to assess the relevance of the content, the clarity of delivery, the level of understanding gained, and suggestions for future sessions. The consolidated feedback analysis is attached as an annexure.

Feedback Analysis Summary

Parameter	Observation
Student Participation	Students attended the session attentively and participated actively in the interactive Q&A session – Photos.
Relevance of Content	The topic was relevant to the Database Management Systems curriculum and to current industry practices.
Quality of Delivery	The resource person explained complex concepts in a clear and structured manner using practical examples.
Learning Outcomes	Students gained an understanding of real-time database concepts, data synchronization, in-memory processing, and enterprise data integration.
Industry Exposure	Students gained insights into industry practices, enterprise integration, and career opportunities in database and SAP technologies.
Overall Impact	Positive response from students; the session enhanced their technical awareness and industry readiness.

7. OUTCOMES

The key findings and outcomes of the expert talk were:

- MCA students gained a clear understanding of the concepts and characteristics of real-time database systems.
- Students understood the differences between traditional and real-time databases with respect to latency, consistency, and timing constraints.

- Students were introduced to real-time data synchronization, event-driven architecture, and in-memory data processing.
- Students gained exposure to how real-time data is integrated across enterprise systems.
- Practical examples helped students relate database concepts to real-world applications.
- Students became aware of the skills required and the career opportunities available in database technologies and enterprise integration.
- The interactive session improved students' confidence in engaging with industry professionals.
- The programme strengthened industry–academia interaction for the Department of MCA.

8. EVIDENCE ATTACHED

Supporting Evidence

The following evidence is attached:

- Event approval
- Event poster.
- Student attendance sheet.
- Resource person profile.
- Photographs of the session.
- Student feedback analysis.
- Final expert talk report.

Evidence Reference IDs

1. Annexure I – Event Approval
2. Annexure II – Event Poster
3. Annexure III – Student Attendance Sheet
4. Annexure IV – Photographic Evidence of the Expert Talk
5. Annexure V – Student Feedback Analysis

9. CHALLENGES

The following challenges were encountered during the planning and execution of the expert talk:

- **Scheduling with an Industry Professional:** The session had to be scheduled around the professional commitments of the resource person, requiring advance coordination.

Despite these challenges, the session was conducted successfully with good participation and a positive response from the students.

10. CONCLUSION

The expert talk on "Real-Time Database Systems for Modern Applications", organized by the Department of MCA, was an informative and successful session that enhanced students' understanding of real-time data management in modern applications.

Ms. Bilasi Lenka J, SAP Integration Consultant, effectively bridged the gap between classroom concepts and industry practice by explaining real-time database architecture, synchronization, in-memory processing, and enterprise data integration with practical examples.

The active participation of students and their interaction with the resource person reflected the value of such industry-oriented sessions. Overall, the programme reinforced the Department of MCA's commitment to industry–academia collaboration and holistic student development. Similar expert talks may be organized in the future to keep students updated on emerging technologies.

11. ANNEXURES

The following annexures are included:

1. Annexure I – Event Approval
2. Annexure II – Event Poster
3. Annexure III – Student Attendance Sheet
4. Annexure IV – Photographic Evidence of the Expert Talk
5. Annexure V – Student Feedback Analysis

SIGNATURES

Prepared By:	**Reviewed and Approved by:**
A. Kalaivani	
Dr. A. Kalaivani	Dr. V. Asha
Coordinator, Dept. of MCA	Professor and HoD, Dept. of MCA
Date: 14/11/2026	

Annexure II – Event Poster



Annexure III – Student Attendance Sheet

EXPERT TALK –**Real-Time Database Systems for Modern Applications**

DATED: 14.11.2026

NEW HORIZON
COLLEGE OF ENGINEERING
New Horizon Knowledge Park, Ring Road, Marathalli
Autonomous College Permanently Affiliated to VTU, Approved by AICTE & UGC
Accredited by NAAC with 'A' Grade. Accredited by NBA

DEPARTMENT OF MCA

AY 2026-27

ATTENDANCE SHEET OF PARTICIPANTS

EXPERT TALK

Topic: Real-Time Database Systems for Modern Applications

RESOURCE PERSON: Ms. Bilasi Lenka J

SAP Integration Consultant

CAPGEMINI

DATE: 14-11-2026

TIME: 9:00 am to 11:00 am

PARTICIPANTS: STUDENTS SEM I (B section)

VENUE: B308

SERIAL NO	USN NO	NAME	SIGNATURES
01	26MCA035	Radhika Harikantra	
02	26MCA101	Mythreé K.N.	
03	26MCA173	Pooja Vardhana Reddy	
04	26MCA150-T	Muskan	
05	26MCA117	Manya Nayak	
06	26MCA106	Padma Priya M	
07	26MCA174	Prathibha. S.	
08	26MCA178	Prajaktha J.	
09.	26MCA185		
10	26MCA121	Navyashree KT	
11	26MCA135	Madhushree. M	
12.	26MCA107	Kavana. R	

DEPARTMENT OF MASTER OF COMPUTER APPLICATIONS

Tel: 080 66297777, Extn: 2016 hod_dca@newhorizonindia.edu

Annexure III – Student Attendance Sheet (contd.)

EXPERT TALK –**Real-Time Database Systems for Modern Applications**

DATED: 14.11.2026

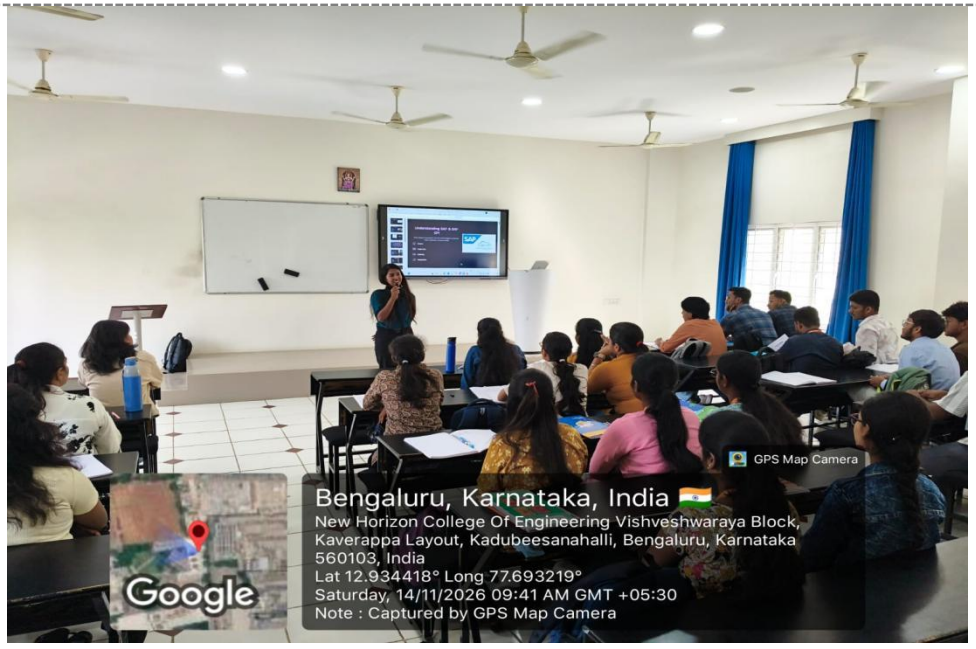
SERIAL NO	USN NO	NAME	SIGNATURES
13	26MCA124-T	Lavanya .M	Lavanya M
14	26MCA169-T	Janani.A	Janani.A
15	26MCA125-T	Meghana S	Meghana.S
16	26MCA019-T	Sapana Patel	Sapana Patel
17	26MCA001-T	Namrata.k	Namrata
18	26MCA122-T	Kavya	Kavya.
19	26MCA152-T	P.Abisri	Abisri
20	26MCA134-T	Nikhil Naik	Nikhil
21	26MCA024-T	MD AKRAM	Akram
22	26MCA164-T	Kartik	Kartik S.Y.
23	26MCA123-T	PUNITH.K.N.	Punith K.N.
24	26MCA128-T	M.MADHUKUMAR	M.Madhu
25	26MCA103-T	Pragwal.S	Pragwal
26	26MCA009-T	LOKESH.T	T.Lokesh
27	26MCA041-T	N.Yashwanth Kumar	Yashwanth
28	26MCA027-T	Mohan Raj. A	Mohan
29	26MCA160-T	ketan Patil	Ketan
30	26MCA146-T	Nithin S.V	Nithin S.V
31	26MCA012-T	Teevan	Teevan
32	26MCA046T	Pankaj.L	Pankaj.L
33	26MCA179-T	Kiran	Kiran
34	26MCA158-T	Narahari. Madival	Narahari
35	26MCA155-T	Sucnith K.C	Sucnith
36	26MCA108-T	Prathmesh R O	Prathmesh
37	26MCA014-T	Kasi Reddy Vishnu	Vishnu

A. Kalaivani
Faculty coordinator

HOD - MCA
Head of the Department
Department of Master of Computer Applications
NEW HORIZON COLLEGE OF ENGINEERING

Annexure IV – Photographic Evidence of the Expert Talk






GPS Map Camera
Bengaluru, Karnataka, India
New Horizon College Of Engineering Vishveshwaraya Block,
Kaverappa Layout, Kadubeesanahalli, Bengaluru, Karnataka
560103, India
Lat 12.934373° Long 77.693229°
Saturday, 14/11/2026 09:38 AM GMT +05:30
Note : Captured by GPS Map Camera
Google


Understanding SAP & SAP CPI
SAP
GPS Map Camera
Bengaluru, Karnataka, India
New Horizon College Of Engineering Vishveshwaraya
Block, Kaverappa Layout, Kadubeesanahalli,
Bengaluru, Karnataka 560103, India
Lat 12.934471° Long 77.693153°
Saturday, 14/11/2026 09:43 AM GMT +05:30
Note : Captured by GPS Map Camera
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Expert Talk
Real-Time Database Systems
for Modern Applications
GPS Map Camera
Bengaluru, Karnataka, India
New Horizon College Of Engineering Vishveshwaraya
Block, Kaverappa Layout, Kadubeesanahalli,
Bengaluru, Karnataka 560103, India
Lat 12.934452° Long 77.693115°
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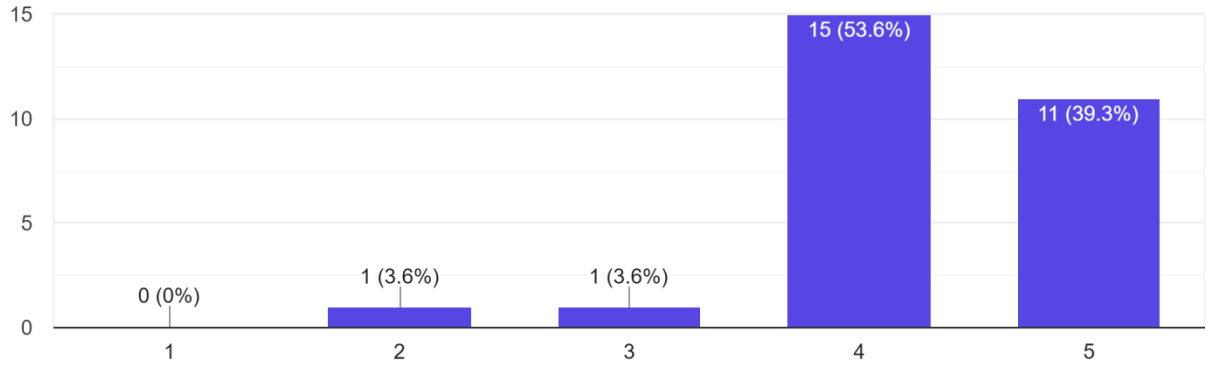
Note : Captured by GPS Map Camera
Google

Annexure V – Student Feedback Analysis

EXPERT TALK – "REAL-TIME DATABASE SYSTEMS FOR MODERN APPLICATIONS" STUDENT FEEDBACK ANALYSIS

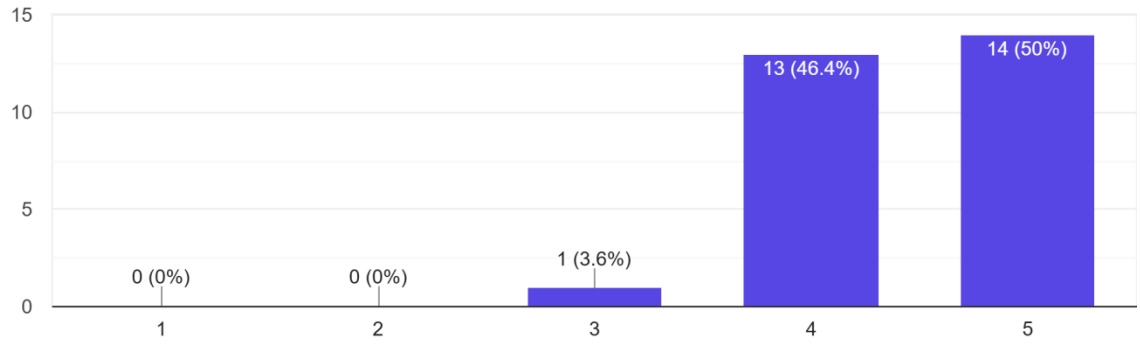
How would you rate the expert's depth of knowledge and command over the subject?

28 responses



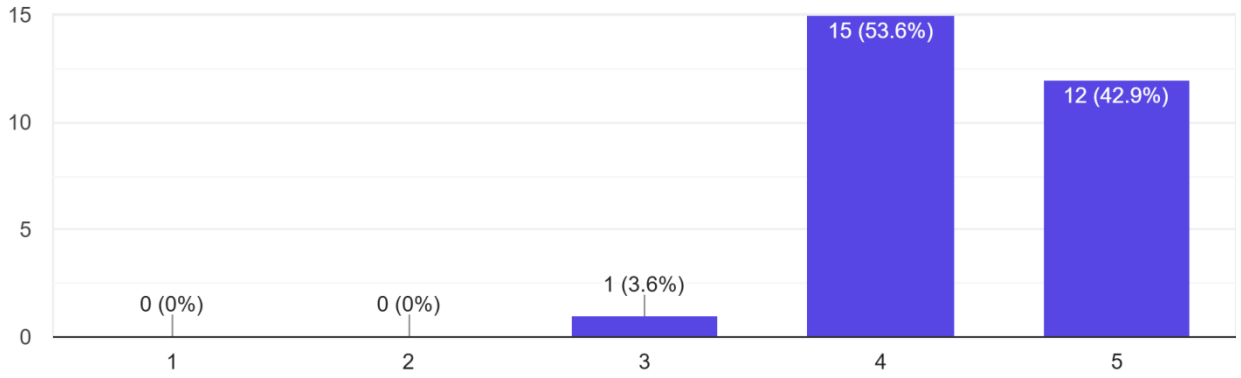
How well did the talk cover current trends and future scope in the field?

28 responses



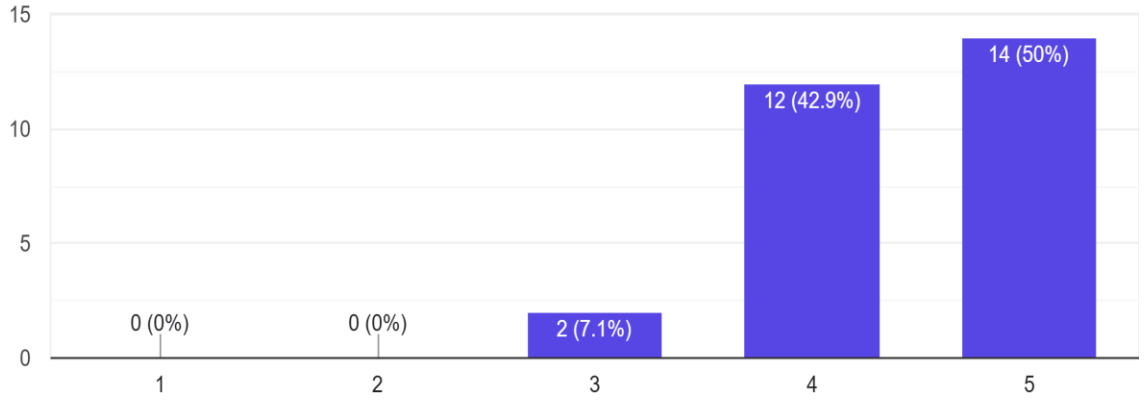
How would you rate the overall effectiveness of the expert talk?

28 responses



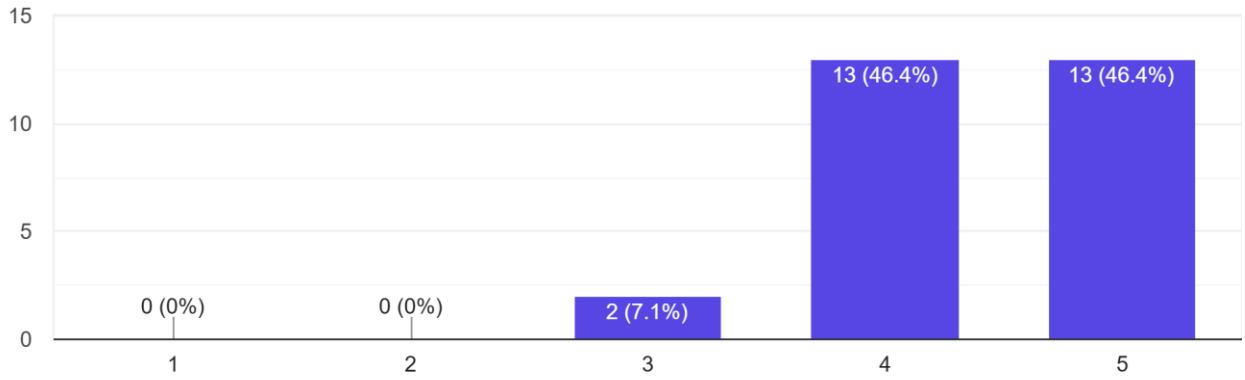
How useful was the talk in giving you new knowledge or practical industry insights?

28 responses



How would you rate the interaction and the question-and-answer session with the speaker?

28 responses



Comments if any 6 responses

Good
Na
Good
None
NA

A. Kalaivani

EVENT COORDINATOR

Dr.A.KALAIVANI

HOD-MCA

Dr.V.ASHA