

G. H. Patel P. G. Department of Computer Science and Technology  
Master of Computer Applications  
MCA - I Internal Examinations  
PS01CMCA23 Database Management Systems - I  
Thursday, 25<sup>th</sup> October, 2018

Time: 11:00 am to 12:30 pm

Max. Marks: 30

Q-1 Choose the most appropriate option for each question: [4]

1. Which of the following is not a data type in oracle?  
(A) Number (B) Date  
(C) Char (D) String
2. Employee and Skill is a \_\_\_\_\_ relationship.  
(A) One-to-one (B) One-to-many  
(C) Many-to-many (D) None of these
3. To remove a table with the data \_\_\_\_\_ command is used.  
(A) Drop (B) Truncate  
(C) Delete (D) Destroy
4. \_\_\_\_\_ is used to make a particular field mandatory in a table.  
(A) Check Constraint (B) Default Constraint  
(C) Not Null Constraint (D) None of these

Q-2 Answer the following questions (ANY THREE): [6]

1. Explain Primary key constraint and Unique key constraint with an example.
2. Difference between Char & Varchar data types.
3. Give an example of table level and column level constraints.
4. Difference between Centralized and Distributed database.

Q-3 Answer the following questions:

- A. Explain following functions:  
INITCAP, ROUND, LENGTH, TO\_NUMBER, SUBSTR [5]
  - B. Explain GROUP BY and HAVING clause with an example. [5]
- OR
- B. Users associated with database systems and their roles [5]

Q-4 Answer the following questions:

- A. List types of data model. Explain any two in detail. [5]
  - B. Explain Dr Edgar F. Codd's Rules for RDBMS. [5]
- OR
- B. Explain ALTER and UPDATE commands syntax with an example. [5]

\*\*\*\*\* ALL THE BEST \*\*\*\*\*



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**Thursday, 17<sup>th</sup> October, 2019**

Time: 11:00 am to 12:30 pm

Max. Marks: 30

**Q-1 Choose the most appropriate option for each question.**

[4]

1. \_\_\_\_\_ uniquely identifies a row in each table.

- |                 |                  |
|-----------------|------------------|
| (A) Primary Key | (B) Not Null Key |
| (C) Foreign Key | (D) Default Key  |

2. A music album have many artists and an artist have many albums, it is a \_\_\_\_\_ relationship.

- |                  |                   |
|------------------|-------------------|
| (A) One-to-one   | (B) One-to-many   |
| (C) Many-to-many | (D) None of these |

3. In existing table, to change the data type of a particular column \_\_\_\_\_ command is used.

- |           |            |
|-----------|------------|
| (A) Edit  | (B) Modify |
| (C) Alter | (D) Change |

4. \_\_\_\_\_ means choosing the correct data type and length for a particular column

- |                           |                                 |
|---------------------------|---------------------------------|
| (A) Domain Integrity      | (B) Default Integrity           |
| (C) Referential Integrity | (D) Entity Integrity Constraint |

**Q-2 Answer the following questions. (Any Three):**

[6]

1. Define: Unique key & Foreign Key
2. Discuss a pattern matching operator LIKE in brief with an example.
3. Explain check constraint in brief with an example.
4. List DDL and DCL commands.

**Q-3 Answer the following questions.**

A. Explain the following inbuilt functions with an example.  
LENGTH, ROUND, TO\_NUMBER, TRANSLATE, LAST\_DAY

[5]

B. Users associated with database systems and their roles.

[5]

OR

B. Discuss DBMS benefits in detail.

[5]

**Q-4 Answer the following questions.**

A. Explain SELECT command syntax with an example.

[5]

B. Discuss Dr Edgar F. Codd's Rules for RDBMS.

[5]

OR

B. Write a short note on Data Models.

[5]



**Time: 11.00 am – 2.00 pm**

**Q-1** Select the correct option from the following questions.

(1) \_\_\_\_\_ is not a RDBMS?

- (2) \_\_\_\_\_ is used to derive other attribute

- (3) Which of the following is a multivalve attribute?

- (4) \_\_\_\_\_ Command is used to change the size of field in table.

- (5) To make the value of the field compulsory it should be declared as \_\_\_\_\_.

- (6) \_\_\_\_\_ command is used to remove selected records from table.

- (7) \_\_\_\_\_ is used to uniquely identify the row in a table.

- (8) Joining a table to itself is called \_\_\_\_\_.

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Q-2 Do as directed. (ATTEMPT ANY SEVEN)

- (1) Explain Check constraint with an example.
- (2) What is the need of dual table?
- (3) Difference between Char and Varchar datatypes
- (4) Define: Domain Integrity & Semantic Integrity
- (5) Difference between Single valued Vs Multivalued attributes
- (6) Give an example of strong and weak entity.
- (7) List DDL and DML commands.
- (8) Explain data sharing in brief.
- (9) Explain COMMIT and ROLLBACK commands in brief.

[6]

Q-3 A Explain benefits of DBMS.

[6]

B List types of data model. Explain any two in detail.

OR

[6]

B Explain users associated with database systems and their roles.

[6]

Q-4 A Describe the notations used in ER diagram.

[6]

B Explain Dr. Edgar F. Codd's Rules for DBMS in brief.

OR

[6]

B Draw an ER diagram & show cardinality for following information.

A Bank has many branches and a large number of customers. A customer can open different kinds of accounts with bank. The bank keeps track of customer with social security number (SSN), name, address, phone number and age. Age is used as a factor to check whether he is major. There are different types of loans each identify by a loan number. Customer can take more than one type of loan. Loans have a duration and interest rate. The account holder can enquire about balance in this account.

[6]

Q-5 A Explain various data types in detail.

[6]

B Explain UPDATE and INSERT commands.

OR

[6]

B Define the following terms.

Primary key, Foreign key, Unique key, Not Null, Default

[6]

Q-6 A Discuss following functions with an example

COUNT, LENGTH, LOWER, CONCAT, SQRT, ASCII

[6]

B List types of joins. Explain any three Joins with an example.

OR

[6]

B Explain WHERE and ORDER BY SQL clause

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Internal Exam

G. H. Patel P. G. Department of Computer Science and Technology  
MASTER OF COMPUTER APPLICATION (MCA)  
SEM- I Internal Examinations  
PS01CMCA33: DATABASE MANAGEMENT SYSTEMS  
Wednesday, 10<sup>th</sup> February, 2021

2021

Time: 11:00 am to 12:30 pm

Max. Marks: 30

Q-1 Choose the most appropriate option for each question:

[4]

1. Which of the following keyword is not used in constraint?  
(A) Foreign (B) Check  
(C) Primary (D) Create
2. Where the metadata are stored in database?  
(A) System Catalog (B) Meta dictionary  
(C) DBA (D) None of these
3. \_\_\_\_\_ command is use to remove the records from a table.  
(A) SELECT (B) INSERT  
(C) DELETE (D) UPDATE
4. Which of the following is not a types of join?  
(A) Inner join (B) Outer join  
(C) Cross join (D) None of these

Q-2 Answer the following questions (ANY THREE):

[6]

1. Give one example of Simple attribute and multivalued attribute.
2. Give an example of derived attribute and composite attribute.
3. List out any four data types in oracle.
4. Difference between Char and Varchar data type.

Q-3 Answer the following questions:

- A. Explain entities and attributes. Draw various notations for ER diagram.
- B. Explain Primary key and foreign key constraints with an example.

[5]

[5]

OR

- B. Consider the following table.

[5]

Student\_Master (Student\_Id, Student\_Name, Birth\_Date, Mobile, City)

Write down the answers of following queries.

1. Add new record in student\_master table.
2. To display all students detail.
3. Remove all the records whose Student\_Id greater than 20.
4. Change the City is equal to 'Ahmedabad' for Student\_no less than 5.
5. Display students name in alphabetical order.

Q-4 Answer the following questions:

- A. Explain CREATE command syntax with an example.
- B. Explain any five in-built functions with an example.

[5]

[5]

OR

- B. List types of joins. Explain any two with an example.

[5]

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