

C.U.SHAH UNIVERSITY

Winter Examination-2015

Subject Name: Advance Database Management Systems

Subject Code: 2TE05ADM1

Branch: Diploma (CE)

Semester: 5 Date: 07/12/2015 Time: 2:30 To 5:30

Marks: 70

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1

Attempt the following questions:

(14)

1. Which of the following is not a TCL Command?
a) Commit b) Rollback c) Savepoint d) Grant
2. Which among the following is not a valid data type in SQL?
a) Date b) Number c) Varchar d) String
3. Views are also called as _____.
a) Complex Tables b) Simple Tables c) Virtual Tables d) Physical Tables.
4. Which of the following is NOT an Oracle-supported trigger?
a) Before b) After c) During d) All of the above
5. In ACID property 'A' Stands for _____.
a) Atomicity b) Automatic c) Arithmetic d) Algorithm
6. In the _____ normal form, a composite attribute is converted to individual attributes.
a) First b) Second c) Third d) Fourth
7. Which among the following is not a valid Transaction State?
a) Active b) Partially Committed c) Failed d) Sleeping
8. DML stands for _____.
a) Data Multiple Language b) Data Mixed Language
c) Data Manipulation Language d) Data Mining Language
9. _____ is a statement that is executed automatically by the system.
a) Trigger b) Cursor c) Durability d) Transaction
10. _____ is the process of organizing data into related tables.
a) Generalization b) Specialization c) Normalization d) Initialization
11. The functional dependency between two attributes A and B is denoted by
a) $B \rightarrow A$ b) $A \leftarrow B$ c) $AB \rightarrow R$ d) $R \leftarrow AB$
12. _____ is a full form of SQL.
a) Standard query language b) Sequential query language
c) Structured query language d) Server side query language
13. Grant and revoke are _____ statements.
a) DDL b) DML c) DCL d) TCL



14. Which among the following is not a cursor attribute?
a) %FOUND b) %NOTFOUND c) %ISOPEN d) %WORKING

Attempt any four questions from Q-2 to Q-8

- Q-2 Attempt all questions**
- a) Explain TCL using commands & examples (07)
 - b) What is lock? Explain different types of lock in detail. (07)
- Q-3 Attempt all questions**
- a) Explain structure of general PL/SQL block. (07)
 - b) List out PL/SQL data types and explain any two in detail. (07)
- Q-4 Attempt all questions**
- a) What is Cursor? Explain various cursor attributes. (07)
 - b) What is trigger? Explain different types of trigger in detail. (07)
- Q-5 Attempt all questions**
- a) Explain Function in detail with suitable example. (07)
 - b) Explain Procedure in detail with suitable example. (07)
- Q-6 Attempt all questions**
- a) Explain Armstrong's Axioms for functional dependencies using examples (07)
 - b) What is Normalization? Explain 1NF & 2 NF. (07)
- Q-7 Attempt all questions** (07)
- a) Explain Transaction Properties (ACID). (07)
 - b) Explain Two-Phase Locking with example.
- Q-8 Attempt all questions**
- a) Write PL/SQL program to find factorial of a given number. (05)
 - b) Write PL/SQL program which handles NO_DATA_FOUND Exception. (05)
 - c) Write PL/SQL program to check if the entered number is even or odd. (04)



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É.

nlcena p/Äo na jvab Aapo.

(Éi)

- É. nlce Aapela kma>Dma4l kyo kma>D TCL kma>D n4l ?
b) Commit b) Rollback c) Savepoint d) Grant
- Ê. nlce Aapela 3a[p ma4l kyo SQL De3a 3a[p n4l ?
b) Date b) Number c) Varchar d) String
- Ë. Views ne _____ p` khevama> Aave 0e.
b) Complex Tables b) Simple Tables c) Virtual Tables d) Physical Tables.
- Ì. nlce Aapela 3a[p ma4l kyo Oracle supported trigger 3a[p n4l ?
b) Before b) After c) During d) All of the above
- Í. ACID p/opR3lma> 'A' no mtlb _____ 4ay 0e.
b) Atomicity b) Automatic c) Arithmetic d) Algorithm
- Î. _____ nomRI foRmma>, composite attribute ne individual attributes ma vlwa+t krvamaAave 0e.
b) First b) Second c) Third d) Fourth
- Ï. nlce Aapela ma4l kyo Transaction nu S3e3 n4l ?
b) Active b) Partially Committed c) Failed d) Sleeping
- Ð. DML nu puru naam _____ 0e.
b) Data Multiple Language b) Data Mixed Language
c) Data Manipulation Language d) Data Mining Language
- Ñ. _____ Aek SQL S3e3meN3 0e ke je sIS3m ^Vaara Ao3ome3lkl execute krvama Aave 0e.
b) Trigger b) Cursor c) Durability d) Transaction
- ÉÈ. _____ De3a ne rlle3eD 3eblma go#vvanl p/klya 0e.
a) Generalization b) Specialization c) Normalization d) Initialization
- ÉÉ. be Attributes A Ane B vCce Functional Dependency dxaRvva ma3e kyo sIMbol vpray 0e ?
a) $B \rightarrow A$ b) $A \leftarrow B$ c) $AB \rightarrow R$ d) $R \leftarrow AB$
- ÉÊ. SQL nu puru naam _____ 0e.
a) Standard query language b) Sequential query language
c) Structured query language d) Server side query language
- ÉË. Grant Ane Revoke _____ statements 0e.
a) DDL b) DML c) DCL d) TCL
- ÉÌ. nlce Aapela ma4l kyo cursor attribute n4l ?
a) %FOUND b) %NOTFOUND c) %ISOPEN d) %WORKING

nlcena ma>4l ko[p` Ì p/Äo na jvab Aapo.

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nlcena p/Äo na jvab Aapo.

AÝ TCL kma>D]dahr` sa4e sm=vo.

(Ï)

bÝ lok xu 0e? lokna vlvl6 p/karo vlStar4l sm=vo.

(Ï)

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nlcena p/Äo na jvab Aapo.



AÝ PL/SQL block nu SŞKcr vIStar4I sm=vo. (İ)

bÝ PL/SQL De3a 3a[pna p/karo lql ko[p` be p/karo vIStar4I sm=vo. (İ)

pÄ/ İ. **nIcena p/Äo na jvab Aapo.**

AÝ Cursor xu 0e? Cursor attributes vIStar4I sm=vo. (İ)

bÝ Trigger xu 0e? Trigger na> vIvI6 p/karo vIStar4I sm=vo. (İ)

pÄ/ İ. **nIcena p/Äo na jvab Aapo.**

AÝ Function]dahr` Aapl vIStar4I sm=vo. (İ)

bÝ Procedure]dahr` Aapl vIStar4I sm=vo. (İ)

pÄ/ İ. **nIcena p/Äo na jvab Aapo.**

AÝ Functional dependencies ma3ena Armstrong's Axioms]dahr` sa4e sm=vo. (İ)

bÝ Normalization xu 0e? 1NF & 2 NF vIStar4I sm=vo (İ)

pÄ/ İ. **nIcena p/Äo na jvab Aapo.**

AÝ Transaction Properties (ACID) vIStar4I sm=vo. (İ)

bÝ Explain Two-Phase Locking with example.

pÄ/ Đ. **nIcena p/Äo na jvab Aapo.**

AÝ Aapel n>br ma3e feK3orlyl xo6va ma3e no PL/SQL p/og/am lqo. (İ)

bÝ NO_DATA_FOUND Exception HeNDI krva ma3e no PL/SQL p/og/am lqo. (İ)

k) Aapel n>br Aekl 0e ke bekl te xo6va ma3e no PL/SQL p/og/am lqo. (İ)



