

CS409 All Mid QUIZ

Anything which is not necessarily meaningful to the human being is called?

Data

Consider following Relation: Result(StudentID, Subject, Marks) Choose appropriate key for this relation.

(StudentID, Subject)

If your db_block_size is 8kb, then your maximum data file size is _____.

32 GB

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A _____ is a logically consistent collection of data that has meaning.

Database

ATMTransaction(Card#, TransNo, Amount, DrawDate, Machine#, TransType) In given table, Card#, TransNo will be a _____ key.

Composite key

Each oracle data file can contain maximum _____ data blocks.

4 million

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A _____ is a software package that allows users to create and maintain databases.

DBMS (Database Management System)

PatientID, VisitID is _____ key LabTest table.
(Considering tables PatientVisit and LabTest)

Foreign key

The _____ view provides information that helps you decide on a value for SGA_TARGET.

V\$SGA_TARGET_ADVICE

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What is the name of the data that has been processed to reveal its meaning?

Information

Consider the following table: Result
(SemesterNo, StudentID, CourseID, Grade)
What should be appropriate primary key for above table?

(SemesterNo, StudentID, CourseID)

A/an _____ is a type of data backup that contains all the data in a specific database or set of file groups or files, and also enough log to allow for recovering that data.

Full Backup

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Raw facts of information is called _____.

Data

A key that has more than one attributes is known as _____.

Composite key

_____ is a process of copying data records from a SQL Server database, or log records from its transaction log.

Backup

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Information is _____.

Processed data

What will be the suitable composite key for the following given table? Sale(Cust_Id, order_Id, product_code, product_count)

(Cust_Id, order_Id, product_code)

Which of the following is not a component of the Control file?

Tablespace memory

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3-tier database architecture is a _____ .

More scalable and flexible system

Which of the following represents a value of an attribute that is currently unknown?

NULL

The _____ must be available for writing by the Oracle Database server whenever the database is open.

Control file

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2-tier database architecture is a _____.

Client-server system

We cannot compute anything with the _____ value.

NULL

Every Oracle Database has a _____, which is a small binary file that records the physical structure of the database.

Control file

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_____ are used for entering, modifying, and viewing records?

Forms

_____ Constraint specifies that the value of attribute A must be a(n) _____ value from the domain $DOM(A)$.

Domain Integrity

Which of the following SQL statement is used to back up the control file?

ALTER DATABASE BACKUP CONTROLFILE TO TRACE;

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_____ is a software for storing and retrieving user's data.

Database Management System

Choose correct syntax to add unique constraint on employee table using alter table command.

```
add constraints uniq_employee unique (designation);
```

Which of the following SQL statement is used to Back up the control file to a binary file (duplicate of the existing control file)?

```
ALTER DATABASE BACKUP CONTROLFILE TO  
'/oracle/backup/control.bkp';
```

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MS Access is a _____ DBMS.

Weak

Choose correct syntax to add check constraint on employee table using alter table command.

```
add constraint ck1 check (salary > 0);
```

If the database is open, shut down the database normally if possible. Use the IMMEDIATE or _____ clauses only as a last resort.

ABORT

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Oracle is an example of _____?

Database management system

Suppose we want to ensure that an age domain allows only values greater than a specified value. For this, _____ clause will be used.

Check

Which of the following SQL statement is used to find all trace files for the current instance?

```
SELECT VALUE FROM V$DIAG_INFO WHERE NAME =  
'Diag Trace';
```

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SQL stands for_____ .

Structured Query Language

Which of the following keywords is used to add an item into an existing table using Alter command?

ADD

_____ are stored in the Automatic Diagnostic Repository (ADR), in the trace directory under each ADR home.

Trace files

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OLAP stands for_____.

Online Analytical Processing

What is the correct syntax for altering an existing STD table using Add constraint?

```
alter table std add (constraint ck1_std check  
    (totalsub<4));
```

Which of the following SQL statement is used to find the trace file for your current session?

```
SELECT VALUE FROM V$DIAG_INFO WHERE NAME =  
    'Default Trace File';
```

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_____ database model describes the data as much detail as possible, without regard to how they will be physically implemented in the database?

Logical data model

_____ constraint can be used to drop Foreign Key of a child table.

cascade

_____ is the point at which the database stops writing to one redo log file and begins writing to another.

Log switch

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Query Processing can be managed by using _____ SQL tool.

Vendors

Which Key gives unique records with conditions NOT NULL, UNIQUE and INDEXED?

Primary Key

The redo log file that LGWR is actively writing to is called the _____.

Current redo log file

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For taking decisions data must be _____.

Processed / Information

Which of the following is not a Standard Constraint?

Check

The most crucial structure for recovery operations is the _____.

Redo log

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OLTP stand for_____ .

Online Transaction Processing

Which of the following is not an Additional Constraint?

Candidate Key

_____ redo log means that two or more identical copies of the redo log can be automatically maintained in separate locations.

Multiplexed

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1. Which is the top level in the 3-level DBMS architecture?

External Level

While using a Surrogated Key, what type of column should be avoided?

A column with DATE datatype

To protect against a failure involving the redo log itself, Oracle Database allows a _____ redo log.

Multiplexed

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2. What is Logical Data Independence?

Changing conceptual schema without affecting applications

What is the correct syntax for creating a Primary Key using multiple columns?

```
add constraint PK_StdID primary key (RollNo, FName);
```

Minimum size permitted to Redo Log File is _____.

4MB

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3. What does the External Schema do?

Shows only the required data to a user group

Which of the following syntax is correct to make RollNo in table1 as the Foreign Key for table2? Alter table table2

```
add constraint FK_Roll_RollNo foreign key (RollNo)
references table1(RollNo);
```

Group number must be between _____
and MAXLOGFILES.

1

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4. What is a Database Schema?

A blueprint or structure of the data

Which of the following is not part of Database Development?

Team Building

To create new redo log members for an existing group, use the SQL statement ALTER DATABASE with the _____ clause.

ADD LOGFILE MEMBER

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Logical structure of database is called _____?

Conceptual schema

In the Logical Design section of Database Development:

The process of Normalization takes place

To create a new group of redo log files, use the SQL statement _____ with the ADD LOGFILE clause.

ALTER DATABASE

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In three-tier architecture, the layer between external and internal level is called _____.

Conceptual level (or Business logic layer)

In ER Modeling, the property of an entity, its type or the relationship type is called

an attribute

Before relocating your redo logs, or making any other structural changes to the database, you should completely _____ the database.

BACKUP

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The level in which the three level architecture can be defined includes ?

All(Internal Schema Conceptual Schema External Schema)

An example of Physical Entities is:

Employee

To _____ redo log members, you must have the ALTER DATABASE system privilege.

Rename

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Database design at the physical level is called _____?

Physical database design

In an ER Diagram, the Key Identifiers are displayed by:

Underlining the attribute

_____ procedure is necessary, if the disk currently used for some redo log files is going to be removed.

Relocating redo logs

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Database design at the logical level ____?

Logical database design

An attribute that holds more than one value for a single entity is called:

Multivalued attribute

To see a redo log file status, use the _____ view.

V\$LOGFILE

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Who is responsible for creating primary objects (tables, views, indexes) in the database management software?

Database Administrator

In ER Diagrams, the relationship type is displayed as

Diamond shape

An instance always requires at least _____ valid groups of redo log files, regardless of the number of members in the groups.

Two

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What is the total number of schemas that a database can support?

2

What symbol represents a Foreign Key in an ER Diagram?

Dashed underline or dotted underline

To drop a redo log group, you must have the _____ system privilege.

ALTER DATABASE

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Which of the following is not a database object?

Relationship

Which symbol is used to represent an entity in ER diagrams?

Rectangle

Which of the following SQL statement forces a log switch?

`ALTER SYSTEM SWITCH LOGFILE;`

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Which of the following is not a DBMS software?

COBOL

Which of the following is not a type of relationship in ER diagram

many to partial

By default, a log switch occurs automatically when the current redo log file group _____.

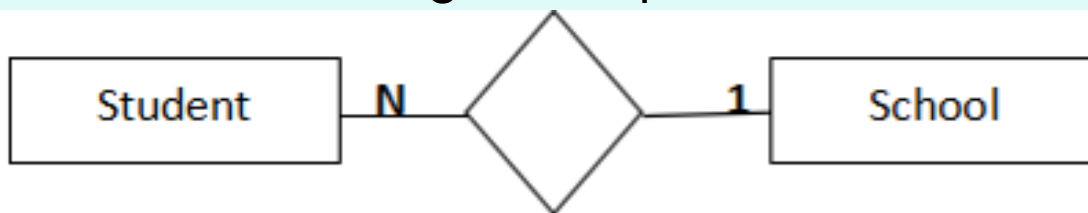
Fills

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Database administrator is responsible for which of the following task?

Database design

What relationship does the following ER Diagram represent?



Many students attend one school

Oracle Database uses the _____ to detect corruption in a redo log block.

Checksum

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_____ is a person or a group of people who are responsible for managing all the activities related to database system.

Database Administrator

Which of the following is multi-valued attribute?

Phone Number

A _____ might become corrupted while the database is open, and ultimately stop database activity because archiving cannot continue.

Redo log file

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Which of the following is not a database administrator task?

Application Development (example)

Which of the following pair cannot be considered as the weak entity type?

Doctor and Patient

Which of the following is correct statement to clear the log file?

`ALTER DATABASE CLEAR LOGFILE GROUP 3;`

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_____ coordinates with the DBA for database connections and other issues such as storage, operating system, and hardware.

System Administrator

If the existence of an entity depends on another entity then that dependent entity is called:

weak entity type

_____ view displays the redo log file information from the control file.

V\$LOG

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Which of the following is the main purpose of physical database design?

Managing Storage Structure for database or DBMS

If the existence of an entity does not depend on another entity, then it is called_____.

strong entity type

_____ view identifies redo log groups, members and member status

V\$LOGFILE

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Backing up and restoring the database is the responsibility of?

Database Administrator

The following entity relationship diagram represents the _____ relationship.



many to many

_____ view contains log history information.

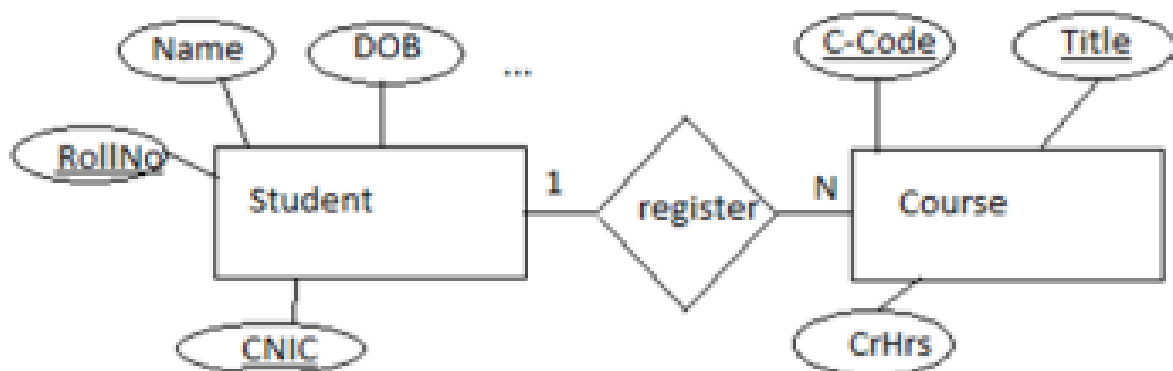
V\$LOG_HISTORY

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_____ coordinates with the DBA for database connections and other issues such as storage, operating system and hardware.

Network administrator

The following entity relationship diagram represents the _____ relationship.



One to many

An _____ is a copy of the filled members of a redo log group with log sequence number.

Archived redo log file

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_____ database design dealing with storage and access of data.

Physical

In entity relationship diagram, double rectangle is used to represent

Weak entity

The process of turning redo log files into archived redo log files is called_____.

archiving

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For query tuning, how many instances are used?

9 instances (as per the typical tuning points)

In a Relational Model, which of the following deals with setting the constraints or restrictions?

Integrity Rules

The archive Destinations _____ indicates whether there was a problem accessing the destination.

Active/Inactive

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_____ partitioning involves putting different rows into different tables.

Horizontal partitioning

The two main operations of an RDBMS are called:

Physical and Logical Operations

The archive Destinations status _____ indicates the availability state of the location and whether the database can use the destination.

Enabled/Disabled

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3NF stands for _____?

Third Normal Form

Which of the following is not an element of a Database Management System (DBMS)?

Web Hosting

Which of the following dynamic performance view shows if the database is in ARCHIVELOG or NOARCHIVELOG mode and if MANUAL (archiving mode) has been specified?

V\$DATABASE

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In the ANSI SPARC architecture, what is the name of the first level?

External level

The type of operations in which the RDBMS determines how things should be done is called:

Logical Operations

Which of the following dynamic performance view displays all redo log groups for the database and indicates which need to be archived?

V\$LOG

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_____ partitioning divides a table into many tables vertically.

Vertical

_____ is a software package that controls the storage, organization, and retrieval of data.

Database Management System (DBMS)

Which of the following dynamic performance view displays information about the state of the various archive processes for an instance?

V\$ARCHIVE_PROCESSES

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How to optimize buffer size and scheduling of processes is _____ of the database tuning.

Problem / Challenge

A/an _____ is a user-created object that can be shared by multiple users. It can be used for PK column.

Sequence

_____ known as average number of transactions processed per minute. It is measured at peak conditions on the system.

Transaction Throughput

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Identify super key from the following table?
Book (book id, book name, author)

{book id}, {book id, book name}, {book id, author}, etc.
(any set with book id)

A/an _____ is a logical, atomic unit of work (block) that contains one or more SQL statements.

Transaction

_____ in oracle is also influenced by factors not under control of DBMS, factors are communication, scheduling and operating system etc.

Response time

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Super key is a superset of _____?

Candidate key

A/an _____ is an optional data structure that can be created on one or more columns of a table.

Index

_____ is an amount of storage space used by the database files and their access path structure on disk including indexes.

Space Utilization

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1. How to optimize buffer size and scheduling of processes is _____ of the database tuning.

Problem

_____ is initiated at user level (client) and it executes on Server (central Database).

SQL

Which of the following is not a characteristic of SYSTEM tablespace?

Eases space administration

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2. Identify super key from the following table?
Book (book id, book name, author)

{book id} (super key)

Oracle Database is designed as a _____
database.

Multi-user

_____ (Logical Level) can belongs to only
one database at a time.

Tablespaces

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Identify the subset of super keys from the following table? Student (rollno, name, age, phone)

all

The server process has its own private session memory, known as the _____.

Program global area

_____ (Physical Level) can belongs to only one tablespace and one database.

Data file

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Choose the goal of tuning indexes from the available options?

Rebuilding the index
All of the above
Certain queries may take too long to run for lack of an index

To make application run faster
An/a _____ is a set of memory structures that manage database files.

Instance

Which of the following is not a characteristic of dictionary-Managed Tablespaces?

Reduced contention on data dictionary tables

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Identify super key from the following table?
Book (book id, book name, author)

book id

A _____ is the key to information management.

Database server

Which of the following is not a characteristic of Locally-Managed Tablespaces?

Each segment stored in the tablespace can have a different storage clause

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Which of the following columns could be used as a candidate key in the Customer table?
Customer (cname, natid, address, city, telno)

Natid

Which process is an instance made of oracle?

Background processes

The extents are managed within the tablespace via bitmaps known as

_____.

Locally managed tablespaces

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Identify the candidate key from the given CAR table CAR(Reg No, Eng No, type)

Reg No Eng No

Which of the following is the full form of SQL?

Structured Query language

_____ tablespaces can reduce the number of data files needed for a database

Bigfile

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Identify the candidate key from the given Student table Student(Roll no, name, age, phone)

Roll no Phone

Which of the following is not a valid SQL type?

Decimal

A big file tablespace with 32K blocks can contain a _____ data file.

128 terabyte

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Candidate key help in searching _____ records.

Fewer duplicated or unique

Which of the following is not a Constraint in SQL?

Union

Which of the following is not a view for Big file Tablespaces?

ADMIN_TABLESPACES

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A _____ is a minimal identifier that is used to identify tuples uniquely.

Primary key

Which of the following is not a DDL command?

UPDATE

Which of the following is not a correct requirement to make tablespace read only?

Tablespace should be temporary

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Primary keys must contain ____ values.

Unique

Which statement is used to delete all rows in a table without having the action logged?

TRUNCATE

The _____ tablespace must always be online.

System

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A primary key consists of more than one attribute is called_____.

Composite key

Which of the following is not a Key in SQL Server?

Substitute

While making Tablespace Read only, the tablespace cannot be a temporary_____.

Tablespace

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Which one of the following attribute can be taken as a primary key from given table?
BankBranch (BranchNo, Branch-Name, City, TotalAsset)

BranchNo

Which of the following is not a type of SQL statement?

DLC

Which of the following SQL command use to make tablespace “userdata” in read only?

ALTER TABLESPACE userdata READ ONLY;

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Which one of the following attribute can be taken as a primary key from given table?
STUDENT(StuID, FirstName, FamilyName, DOB, ...)

StuID

Which of the following is the oldest database model?

Network

Renaming the data files changes their names in the_____.

Control file

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Which of the following is not a characteristic of primary key?

NULL columns are allowed

_____ decode the base table data into useful information.

Views

When substantial portions of a very large database are stored in read-only tablespaces, set the `READ_ONLY_OPEN_DELAYED` initialization parameter to _____.

true

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A _____ as an artificial column added to a relation to serve as a primary key.

Surrogate key

Data about data is called _____.

Metadata

With a bigfile tablespace, you can use the _____ clause outside of the ADD DATAFILE clause.

AUTOEXTEND

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Surrogate key has _____ that are meaningless to users.

Artificial values

Data Dictionary is managed by using _____.

SQL

Which of the following statement is correct statement to drop a temp file and deletes its operating system file?

```
ALTER DATABASE TEMPFILE  
'/u02/oracle/data/lmtemp02.dbf' DROP INCLUDING  
DATAFILES;
```

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Identify the surrogated key from the following table ATMTransaction (Card#, Serial#, Amount, DrawDate)

Serial#

The simplest way to manage instance memory is to allow the Oracle Database instance to _____ manage and tune it for you.

Automatically

An error is raised if you specify a/an _____ clause for a bigfile tablespace.

ADD DATAFILE

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_____ is automatically generated by the system.

Surrogated key

_____ involves maintaining optimal sizes for the Oracle Database instance memory structures.

Memory management

Which of the following SQL statement is used to drop the users tablespace and its associated data files?

DROP TABLESPACE users INCLUDING CONTENTS AND DATAFILES;

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Identify the surrogated key from the following table: InsurancePaid(Policy#, PaidYear, PaidDate, Amount)

PaidYear

The _____ portion of the SGA contains the library cache, the dictionary cache, buffers for parallel execution messages, and control structures.

Shared Pool

Using the RENAME TO clause of the _____, you can rename a permanent or temporary tablespace.

ALTER TABLESPACE

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Identify the surrogated key from the following table RENTAL_PROPERTY (PropertyID, Street, City, Province, Zip Code, Country, Rental_Rate)

PropertyID

Examples of data stored in the SGA include cached _____ and shared SQL areas.

Data blocks

If any data file or the tablespace is _____ then the tablespace cannot be renamed.

Offline

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Which key has an artificial value that are meaningless to users?

Surrogate key

The _____ is shared by all server and background processes.

System Global Area

You must have the _____ system privilege to drop a tablespace.

DROP TABLESPACE

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A _____ is an attribute of a relation that is a primary key of another relation.

Foreign key

A _____ is a memory region that contains data and control information for a server process.

Program Global Area

You can monitor the occupants of the SYSAUX tablespace using the _____ view.

V\$SYSAUX_OCCUPANTS

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Which of the following key enables you to link two or more tables together?

Foreign key

Any data block (changes in data) in buffer cache is written into data file using DBWR, called_____.

Dirty Buffer

The SYSAUX tablespace serves as an _____ tablespace to the SYSTEM tablespace.

Auxiliary

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Which of the following is a statement that restricts the values of the foreign key to those already existing as primary key values in the corresponding relation?

Referential Integrity

In memory architecture (SGA), _____ used for Recovery.

SMON

_____ tablespace is used to reduce the load managed by SYSTEM tablespace.

SYSAUX

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The following table is showing _____ relationship. ThPart (Part#, PName, Weight, MakeYear, Price, PType, RefPart#)

Recursive (or Self) Relationship

All SGA components allocate and deallocate space in units of _____.

Granules

Which of the following is a DBMS_SPACE_ADMIN procedure package that is used to mark the segment corrupt or valid so that appropriate error recovery can be done?

SEGMENT_CORRUPT

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Primary key containing multiple attributes/columns is known as _____.

Composite key

_____ view is used to see the granule size that is being used by an instance.

V\$SGAINFO

Which of the following is a DBMS_SPACE_ADMIN procedure package that is used to drop a segment currently marked corrupt (without reclaiming space)?

SEGMENT_DROP_CORRUPT

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A _____ is assigned to a group of temp tablespaces instead of a single temporary tablespace.

User

Which is not a component of SGA memory?

Logfile

Oracle Database includes the _____ package, which is a collection of aids for diagnosing and repairing problems in locally managed tablespaces.

DBMS_SPACE_ADMIN

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Which of the following is correct command to import data of tablespaces on target database?

```
C:>exp usr/pwd file=c:\test\f1.dmp
```

_____ tablespace is required when database is created and when database is getting start using.

SYSTEM

Which of the following is correct command to export data of tablespaces on source database?

```
C:>exp usr/pwd file=c:\test\f1.dmp
```

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Temporary Tablespace Group allows a single _____ operation to use _____ temporary Tablespaces for sorting.

SQL, multiple