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SUMMER - 19 EXAMINATION

Subject Name: Database Management System <u>Model Answer</u> Subject Code: 22319

Important Instructions to examiners:

- 1) The answers should be examined by key words and not as word-to-word as given in the model answer scheme.
- 2) The model answer and the answer written by candidate may vary but the examiner may try to assess the understanding level of the candidate.
- 3) The language errors such as grammatical, spelling errors should not be given more Importance (Not applicable for subject English and Communication Skills.
- 4) While assessing figures, examiner may give credit for principal components indicated in the figure. The figures drawn by candidate and model answer may vary. The examiner may give credit for any equivalent figure drawn.
- 5) Credits may be given step wise for numerical problems. In some cases, the assumed constant values may vary and there may be some difference in the candidate's answers and model answer.
- 6) In case of some questions credit may be given by judgement on part of examiner of relevant answer based on candidate's understanding.
- 7) For programming language papers, credit may be given to any other program based on equivalent concept.

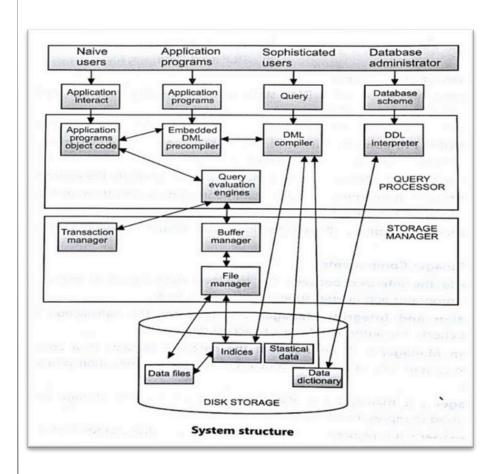
Q. No. 1.	Sub Q. N.	Answer	Marking Scheme
1.	IV.	Attempt any FIVE of the following:	10 M
	a	Define:	2 M
	Ans	(i) Instance (ii) Schema	1 M for each
	Alla	 (i) Instance: The data stored in database at a particula (ii) moment of time is called instance of database. Schema Design of a database is called the schema. Schema 	
		is of three types: Physical schema, logical schema and view	I
	b	List any four advantages of DBMS.	2 M
	Ans	Controlling Redundancy	(½ M for any
		☐ Maintaining Integrity	advantage)
		☐ Inconsistency can be avoided	
		☐ Data can be shared	
		☐ Restricting unauthorized access	
		☐ Providing Backup and Recovery	
		☐ Concurrency Control	
		☐ Better security.	
	С	State any two E.F. Codd's rule for RDBMS.	2 M
	Ans	1. The Information rule: All information in an RDBMS is represented	
		logically in just one way - by values in tables.	rule , ½ M each

	2. The Guaranteed Access rule: Each item of data in an RDBMS	
	is guaranteed to be logically accessible by resorting to a	
	combination of table name, primary key value, and column	
	name. 3. The Systematic Treatment of Null Values rule: Nul	
	values (distinct from an empty character string or a string o	
	blank characters and distinct from zero or any other number	
	are supported in a fully relational DBMS for representing	
	missing 4. The Dynamic Online Catalog Based on the	
	Relational Model rule : The database description is represented	
	at the logical level in the same way as ordinary data, so tha	
	authorized users can apply the same relational database. 5	
	The Comprehensive Data Sublanguage rule: A relationa	
	system may support several languages and various modes o	
	terminal for data definition, view definition, data manipulation	
	etc. 6. The View Updating rule : All views of the data which are	
	theoretically updatable must be updatable in practice by the	
	DBMS. 7. The High-level Insert, Update, and Delete rule: The	
	capability of handling a base relation or a derived relation as	
	single database to perform all DML operations. 8. The Physica	
	Data Independence rule: Application programs and termina	
	activities remain logically unchanged whenever any changes are	
	made in either storage representations or access methods. 9	
	The Logical Data Independence rule: Application programs	
	and terminal activities remain logically unchanged wher	
	information preserving changes of any kind are made to the	
	base tables. 10. The Integrity Independence rule: Integrity	
	constraints must be definable in the RDBMS sub-language and	
	stored in the system catalogue and not within individua	
	application programs. 11. The Distribution Independence	
	rule: An RDBMS has distribution independence. Distribution	
	independence implies that users should not have to be aware o	
	whether a database is distributed. 12. The No subversion rule	
	If the database has any means of handling a single record at	
	time that low-level language must not be able avoid the	
	integrity rules which are expressed in a higher-level language	
al	that handles multiple records at a time. List DCL commands	2 M
d	DCL is Data Control Language:	2 M 1 M for each
Ans		command
	4 CDANT	Command
	1. GRANT	
	2. REVOKE	
		2 M
e Ans	Define Normalization and list its types.	2 M
Ans	Normalization is a process of organizing the data in database to	definition, 1 M
	data redundancy, insertion anomaly, update anomaly & deletion	for the types
	anomaly.	ioi tile types

	1		
		Types of normalization are :	
		☐ First normal form(1NF)	
		Second normal form(2NF) Third normal form(3NF) Boyce & Codd normal form (BCNF) Fourth normal form(4NF)	
	f	Write syntax for creating synonyms with example	2 M
	Ans		1 M for correct
	Ans	Syntax to create synonym: CREATE SYNONYM SYNONYM_name FOR Table_name;	syntax, 1 M for correct example
		Example to create synonym:	
		CREATE SYNONYM offices	
		FOR locations;	
		State any four DI /SOI data types	
	g	State any four PL/SQL data types.	2 M
	Ans	1. NUMBER or NUMBER(P,S) 2. PLS_INTEGER	½ M for each data type
		3. CHAR	data type
		4. RAW	
		5. ROWID	
		6. VARCHAR2	
		7. DATE	
			40.14
2		Attempt any THREE of the following:	12 M 4 M
	a Ans (Explain overall structure of DBMS with the help of diagram. Components of DBMS structure are classified in 3 categories as:	2 M for correct
	Alis	1. Query processor :	diagram, 2 M
		Embedded DML pre compiler: It converts DML statements embed	
		in application.	explanation
		Program to normal procedural calls in host language.	
		DML Compiler: It translates DML statements of high level language	_
		into low level instruction that a query evaluation engine understand	
		DDL interpreter: It interprets DDL statements and records them set of tables containing metadata.	ı III a
		Query evaluation Engine: It executes low level instructions gene	rated
		by DML compiler and issued by query processor to select efficient	
		to execute query.	
		DDL interpreter. It has following components,	

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2. Storage Manager Components: Transaction manager: It ensures that the database remains in consistent state despite of the system failure and that concurrent transaction execution proceeds without conflicting. File Manager: It manages the allocation of space on disk storage and data structures used to represent information stored on disk Buffer Manager: It is responsible for fetching data from disk storage into main memory and deciding what data to cache memory. 3. Disk storage: Data files: It stores the database. Data Dictionary: It stores metadata that hold particular values. Indices: Provide fast access to data items that hold particular values. Statistical data: It stores statistical information about the data in the database.



b Explain difference between delete and truncate command with example.

Ans DELETE Command:

It is DML (Data Manipulation Language) command.

	☐ It is used to remove all or specific records of table.	(2 M for proper
	 It is used to remove all or specific records of table. WHERE clause can be used to remove specific records. Syntax: DELETE FROM Table_name; OR DELETE FROM Table_name WHERE Condition; 	explanation of each command) or (any 4 differences)
	☐ Example: DELETE FROM Employees WHERE Emp_id=100; ☐ ROLLBACK command can be used to get deleted record. TRUNCATE Command:	
	 ☐ It is a DDL(Data Definition Language) command ☐ It is used to remove all records permanently. ☐ WHERE clause can be used as it removes all records. ☐ Syntax: TRUNCATE TABLE Table_name; ☐ Example: TRUNCATE TABLE Employees; ☐ ROLLBACK command cannot be used to get records. 	
	□ New records can be added into a table as structure remains intact.	
	OR	

	DELETE	TRUNCATE	
	It is DML(Data	It is a DDL(Data	
		Definition Language)	
	command It is used to remove all or	command	
	specific records of table.		
	WHERE clause can be use		
	to remove specific records		
		records.	
	Syntax: DELETE FROM S	yntax: TRUNCATE	
	Table_name;	TABLE Table_name;	
	OR		
	DELETE FROM		
	Table_name WHERE Condition;		
	Example: DELETE FROM E	xample:	
	Employees	TRUNCATE TRUNCATE TABLE Employees;	
	WHERE Emp_id=100;	TABLE Employees,	
	ROLLBACK command can	ROLLBACK command	
	be used to get delete	d cannot be used to get	
	record.	records. New records can	
		be added into a table as structure remains intact.	
		Structure remains intact.	
С	Write and explain syntax for cr	eating view with example.	4 M
Ans	A view contains rows and colum view are fields from one or more	ns, just like a real table. The field	s infa 1101 confect syntax, 1 M for
	view are fields from one of more	Teat tables III the database.	explanation,
	View has two types:		1 M for correct
			example
	database.	ew are fields from one table in th	ie
		a view are fields from more tha	in one
	<u>-</u>	add SQL functions, WHERE, and	
		ent the data as if the data were	
	CREATE VIEW Syntax		
	Create view view_name As		

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Select column1, column2... From table name Where condition; Example Create view mumbai_customers AS Select customer name, contact name From customers Where city='Mumbai'; Explain PL/SQL block structure with the help of diagram. 4 M PL/SQL block Ans. PL/SQL Block Strucure: structure 2M, Explanation 2M Declare Declaration of memory variables BEGIN (Mandatory) SQL executable statements Exception Handling errors END; (Mandatory) **Explanation of PL/SQL Block Strucure: Declaration section** A block begins with declarative section where variables, cursors are declared. It is an Optional block. **Execution section** Executable SQL or PL/SQL Statements are needed to write here

		for the execution. It is mandatory bloc	k.		
		Exception section			
		It is used to handles the exceptions. It is an C	Optional block.		
		End statement	·		
		It is used to indicate termination of PL/SQL bl	lock. It is mandatory.		
		, .			
3		Attempt any THREE of the following:	12 M		
	a	State and explain 2NF with example.	4 M		
	Ans	A table is said to be in 2NF if both the following conditions hold: State: 1M Explanation with example			
		□ Table is in 1NF (First normal form)	with example:		
		No non-prime attribute is dependent on			
		candidate key of table.	didata kawa la ka		
		San attribute that is not part of any cand non-prime attribute.	didate key is known as		
		Example : Suppose a school wants to st	ore the data of teachers		
		and the subjects they teach. They cre			
		this: Since a teacher can teach more t			
		can have multiple rows for a same teach	ner.		
		teacher_id Subject teach	er_age		
		111 Math's 3	8		
		111 Physics 38	8		
		222 Biology 3	8		
		333 Physics 40	0		
		333 Chemistry 40			
		CandidateKeys:{teacher_id,subject}			
		Non maine ettribute to about as The 1997	le ie ie 4 NE beseurs er et		
		Non-prime attribute: teacher_age The tab			
		attribute has atomic values. However, it is no prime attribute teacher_age is dependent or			
		proper subset of candidate key. This violates			
		says "no non-prime attribute is dependent	on the proper subset of any		
		candidate key of the table "To make the tall can break it in two tab	ble complies with 2NF we bles like this:		
		teacher details tab	ine tine.		

		teacher_id	teacher_age		
		111	38		
		222	40		
		333	40		
	teacher_subject Ta	able:	J		
	Γ	Teacher_id	Subject	7	
	<u> </u>	111	Math's		
		111	Physics	_	
		222	Biology	_	
		333	Physics	_	
		333	Chemistry	_	
_					
b	Explain any four a				4 M
Ans	An aggregate function are grouped togeth more significant me Aggregate function	er as input or eaning.	tion where the n certain criter	e values of multiple ia to form a single va	rows Any 4 lue of gregate functions with example : 1M each
	1) Count() 2) Sum() 3) Avg() 4) Min() 5) Max()				
	attribute is mentior	ned.		om the given table i I number of not null v	

	There are two types of exceptions –
	error conditionstem-defined (built in) exceptions
	supports programmers to catch such conditions using EXCEPTION block in the program and an appropriate action is taken against the
	PL/SQL
	An exception is an error condition during a program execution. example :2M
Ans	Exception handling in PL/SQL: Explanation: 2M,
С	Explain exception handling in PL/SQL with example. 4 M
	retunes maximum salary value from emp table,
	Eg :Select Max(salary) from emp;
	given attribute from the table.
	5. Max () - It gives maximum of all the values of the numeric
	Returns minimum salary value from emp table,
	Eg :Select Min(salary) from emp;
	4. Min () - It gives minimum of all the values of the numeric given attribute from the table.
	Returns average salary of employees from emp table.
	Eg :Select Avg(salary) from emp;
	3. Avg () - It gives average of all the numeric values of the given attribute from the table.
	Returns total salary drawn of all employees from the emp table.
	Eg :Select sum(salary) from emp;
	2. Sum() - It give total of all values from a numeric attribute of the given table,
	employees having telephone numbers.
	1) Select count(telephone) from emp; Returns total number of
	Returns total number of records from emp table.
	for that attribute. Eg :Select count(*) from emp;

☐ User-defined exceptions
The general syntax for exception handling is as follows:
DECLARE
<declarations section=""> BEGIN</declarations>
<executable command(s)=""> EXCEPTION</executable>
<exception goes="" handling="" here=""> WHEN exception1 THEN</exception>
exception1-handling-statements WHEN exception2 THEN
exception2-handling-statements
 END;
Raising Exceptions
Exceptions are raised by the database server automatically whenever
there is any internal database error, but exceptions can be raised explicitly by the programmer by using the command RAISE . Following is the simple syntax for raising an exception
DECLARE exception_name EXCEPTION; BEGIN
IF condition THEN
RAISE exception_name; END IF;
EXCEPTION WHEN exception_name THEN
statement; END;
You can use the above syntax in raising the Oracle standard exception or any user-defined exception. Example:
DECLARE
A number:=20;
B number:=0; C number;
BEGIN dbms_output.put_line('First Num : ' A);
dbms_output.put_line('Second Num: 'IIB):

	be displayed EXCEPTION WHEN ZERO_DIVIDE THE dbms_output.put_line('Try END;	esult ' C); and then Result wil N Ving to Divide by zero :: Error ');	l not
d	Explain states of transaction wit	h the help of diagram.	4 M
Ans	Active Partially Committed Failed	Committed	diagram : 1M, explanation : 3M
	Active –the initial state; the tran	saction stays in this state while	it is
	Partially committed –after the fir	al statement has been executed	•
	Failed - after the discovery that no proceed.	ormal execution can no longer	
	Aborted – after the transaction has been rolled back and the database restored to its state prior to the start of the transaction. Two options after it has been aborted: restart the transaction - can be done only if no internal logical error kill the transaction Committed –after successful completion.		
_	. ,	•	12 M
a Ans			4 M Any 4
	A database model to manage da	ta A structure of data organized	
	Arranges data in tables	Arranges data in tree like structure	
	Ans	Active — the initial state; the transexcuting Partially committed — after the firm failed — after the discovery that no proceed. Aborted — after the transaction if restored to its state prior to the state internal logical error kill the transecompletion. Attempt any THREE of the follows State difference between relation Relational model A database model to manage datas tuples grouped into relations(tables)	EXCEPTION WHEN ZERO_DIVIDE THEN dbms_output.put_line('Trying to Divide by zero:: Error'); END; Explain states of transaction with the help of diagram. Active — the initial state; the transaction stays in this state while executing Partially committed — after the final statement has been executed Failed - after the discovery that normal execution can no longer proceed. Aborted — after the transaction has been rolled back and the darestored to its state prior to the start of the transaction. Two option it has been aborted: restart the transaction — can be done only if no internal logical error kill the transaction Committed — after success completion. Attempt any THREE of the following: State difference between relational and hierarchical model. A database model to manage data A structure of data organized as tuples grouped into a tree like model using parent relations(tables) Arranges data in tables Arranges data in tree like

	Represents both "one to many" and"many to many" relationship		
	Easier to access data	Difficult to access data	
	Flexible	Less flexible	
	Example :	Example :	
	Student ID First name Last name	Ling Costspa	
	Provider D Provider name 156-983 United Health 146-823 Blue Shield 447-784 Carefirst Inc.	Computers Conflax Chirpsens Nature Brown Souther Computer Compute	
b	List the SQL operations and exp	lain range searching operations	4 M
	between and pattern matching	operator 'like' with example.	
Ans	Types of SQL operators :		List of operators : 2M,
	1) SQL Arithmetic Operators		between
	2) SQL Comparison Operators		operator : 1M, Like operator :
	3) SQL Logical Operators		1M
	Arithmetic operators are used to numbers. They are +,-,*, / and %.	perform arithmetic operations o	ו
	Comparison operators are used		npare
	their values. They are <,>,<=,>=,=		_
	Logical operators are used for t	' '	
	comparison of values from the at All, Like, Between, In etc.	tributes of the tables. Eg: Any, E	XISTS,
	Between operator: The BETWEE values that are within a set of val maximum value inclusive of both	ues, given the minimum value ar	d the
	Eg: select * from emp where salar	ry between 40000 and 50000;	
	This will results in rows from em of 40000 to 50000.	p table where salary falls in the r	ange

	Like appretor . The LIVE operator is used to compare a value to
	Like operator: The LIKE operator is used to compare a value to
	similar values using wildcard operators. It uses two wild characters as '%' and '_' represents all characters of the pattern and '_' represents one
	single character from pattern. Eg:
	Select ename from emp where ename like 'S%';
	This will return all employee names starting with 'S'.
	Select ename from emp where ename like '_a%;
С	This will return all employee names whose second character is 'a'. 4 M
Ans	Explain cursor with example. Explanation :
	A cursor is a temporary work area created in system memory ^{2M} , example:
	when a SQL statement is executed. A cursor is a set of rows together pointer that identifies a current row. It is a database object to retrieve data from a result set one row at a time. It is useful when we want to manipulate the record of a table in a singleton method, in other 1. Declare Cursor: In this part we declare variables and return a set words of values. PORTIONELLA THE CHARMANG AND CHERE CARBOICH MORE CURSOR 4. Close: This is an exit part of the cursor and used to close a holds cursor. is called the active set. Each cursor contains the followings 4 steps, Declare enumemp.eno%type; enemp.ename%type; Cursor cur is select eno, ename from emp where jobname = "mgr";

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	Open cur;
	Loop Fetch cur into enum,en;
	Exit when cur%NOTFOUND;
	Dbms_output.put_line("emp num " enum " emp name " en);
	End loop;
	Close cur;
	End; /
	The example shows fetching multiple records using cursor. A cursor is a temporary work area created in system memory when a SQL statement is executed. A cursor is a set of rows together with a pointer that identifies a current row.
	In the example, the cursor is defined to hold the rows as defined by the
	select query. Once the cursor is defined, the next step is to open the cursor. When the cursor is opened, it is ready to retrieve the rows. This is done using the fetch statement. Since there are many rows, a loop is used to display the values of all the rows. Once the rows are fetched, the cursor should be closed.
	State the use of database trigger and also list types of trigger.
d	Use of trigger 4 M
Ar	Trigger: A trigger is a stored procedure in database which automatically ypes: 1M invokes whenever a special event in the database occurs. A trigger can be invoked when a row is inserted into a specified table or when certain table columns are being updated. Triggers are written to be executed in response to any of the following events – A database manipulation (DML) statement (DELETE, INSERT, or UPDATE) Database definition (DDL) statements (CREATE, ALTER, or DROP).
	A database operation (SERVERERROR, LOGON, LOGOFF, STARTUP, or SHUTDOWN). Triggers can be defined on the table, view, schema, or database with

	Triggers can be written for the following puter atting some derived column values automatically Enforcing referential integrity Event legging and storing information on table access	
	Synchronous replication of tables Imposing security authorizations	
	Preventing invalid transactions	
	Types of trigger	
	□ DML Triggers □ DDL Triggers □ Logon Triggers	
е	Explain recovery techniques with example.	4 M
Reco succ	When recovering the database, it is must redo the effects of the prevactions. This is called Rolling Forward or simple Forward very. Not all but some active transaction that didn't complete essfully needs to rollback, when the disk drive crashed. Such kind lback is called Backward Recovery.	iotsplanation : 3M, Example 1M
The I	Redo Log and Rolling Forward (REDO operation)	
made segm log p	redo log is a set of operating system files that record all changes to any database buffer, including data, index, and rollback ents, whether the changes are committed or uncommitted. The redorotects changes made to database buffers in memory that have now written to the data files.	
The f	irst step of recovery from an instance or disk failure is to roll	
data	ard, or reapply all of the changes recorded in the redo log to the files. Because rollback data is also recorded in the redo log, rolling ard also regenerates the corresponding rollback segments.	
Rollir	g forward proceeds through as many redo log files as necessary to	
	the database forward in time. Rolling forward usually includes e redo log files and may include archived redo log files.	
After	roll forward, the data blocks contain all committed changes as	

a	Draw an E-R diagram of library management system considering issue and return,
5	Attempt any TWO of the following: 12 M
	Rollback segments record database actions that should be undone certain database operations. In database recovery, rollback segments Undoe the effects of uncommitted transactions previously applied rolling forward phase. After the roll forward, any changes that were not committed must be undone. After redo log files have reapplied all changes made to the database, then the corresponding rollback segments are used transactions follback Tsegments are used transactions follback Tsegments are used transactions. To the database during roll forward. This process is called back. Checkpoint Failure Checkpoint Failure Checkpoint Active transactions: T2, T3 Transactions and Recovery Table

Ans	Publ id Price No_copies Borrower id emailid BK_nm Book Borrower Borrower Issue dt Return_dt Publ id publisher Publ id publisher Fine Fine_amt Publ_name Email id Contact_no Borrower id Borrower id Email id Contact_no Borrower id Borrower id Borrower id Borrower id Bk_id Late_days	Correct entities: 2M, correct symbols: 2M, Correct relationships: 2M
b	Consider the table Student (name, marks, dent, age, place, phone, birthdate) Writ	6M
	Student (name, marks, dept, age, place, phone, birthdate). Writ SQL query for following.	e
	i)To list students having place as 'Pune' or 'Jalgaon' ii)To list students having same department(dept) as that of	
	'Rachana'	
	iii) To change marks of 'Rahul' from 81 to 96. iv) To list student name and marks from 'Computer' dept.	
	v) To list student name who have marks less than 40. vi)To list students who are not from 'Mumbai;	
Ans	select name from Student where place= 'Pune' or place='Jalgaon';	I
	(OR) select name from Students where place in('Pune','Jalgaon');	Query:1M
	ii)select name from Student where dept=(select dept from student name='Rachana');	where
	iii)update Student set marks=96 where name= 'Rahul';	
	v)select name,marks from Student where dept='Computer';	
	iv)select name from Student where marks<40;	
	v)select * from Student where place != 'Mumbai';	
С	Create simple and composite index. Write command to drop al index.	oove 6M
Ans	Create simple index Syntax: Create index index_name on <tablename><column name=""></column></tablename>	Simple index
	(OR)	2M,
		Composite

	T	E d Const. 1 1 11		
		E.g.: Create index idx_en Create composite index	npno on employee (empno);	index: 2M
		Syntax: Create index index Column_name2>;	ex_name on <tablename><column_name< th=""><th>1, Drop index 2N</th></column_name<></tablename>	1, Drop index 2N
		(OR)	ama ana an amplayaa (anama ampa).	(Note: Either example can be
		•	ame_eno on employee (ename, empno);	considered.
		Syntax: Drop index <inde< th=""><th>ex_name>;</th><th>Any other</th></inde<>	ex_name>;	Any other
			o created on employee table)	example allowed.)
		Attempt any TWO of the	e following:	
6		-	reate table student(RNO,name marks, ypes and RNo as primary key	12 M
	a	• • •	create and drop sequence.	6M
	Ans	i) create table st (udent	Correct query: 3M
			s) constraint student_RNO_pk primary key	' Create
		name varch marks num		seguence: 2M Drop seguence
		dept varcha		(Note: For (ii)
		(OR) create table st	udent	Either syntax or example can
		(be considered. Any other
		RNO number(5 name varch		example
		marks num	ber(4),	allowed)
		dept varcha	ar2(20), lent_RNO_pk primary key(RNO),	
);	ient_kno_pk primary key(kno),	
		ii) Create Sequence:		
		Create sequence <seq_n Start with [Increment Minvalue [r Maxvalue [r [cycle/no c</seq_n 	initial value] by [value] ninimum value] maximum value] ycle] ue / No cache}]	

	(OR)	
	(Creating sequence for Employee number of emp table.)	
	Create sequence emp_eno_seq start with 1	
	increment by 1 maxvalue 100 no cycle	
	no cache;	
	Drop sequence:	
	Drop sequence <sequence name="">;</sequence>	
	(OR)	
	Drop sequence emp_eno_seq;	
b	Write a PL/SQL program to calculate factorial of a given numbe	r. 6M
Ar		Correct
	num number:=# fact number:=1; BEGIN	Syntax: 3M,Correct logic: 3M
	while num!=0	(Note: Any
	loop fact:=fact*num; num:=num-1 end loop;	other logic car be considered
	<pre>dbms_output.put_line('Factorial =' fact); END; /</pre>	
	(OR)	
	DECLARE	
	num number:=#	
	fact number:=1;	
	i number; BEGIN for i in 1num loop fact:=fact*i;	
	end loop;	

	dbms_output.put_line('Factorial=' fact); END; /	
С	Write SQL command for following i)Create user ii) Grant privileges to user. Iii) Remove privileges from user.	6M
	i)Create user	
Ans	CREATE USER <username> IDENTIFIED BY <password>;</password></username>	Each correct command: 2M
	(OR)	(Note: Either
	CREATE USER RAJ IDENTIFIED BY RAJ123;	syntax or
	ii) Grant privileges to user.	example can be considered.
	GRANT <privilege list=""> ON <relation name="" or="" view=""> TO<user list="">;</user></relation></privilege>	Any other example
	(OR)	allowed)
	(assuming table Employee for granting permissions to user 'RAJ' for select, insert, update and delete privilege)	
	GRANT SELECT, INSERT, UPDATE, DELETE ON EMPLOYEE TO RAJ;	
	Iii) Remove privileges from user.	
	REVOKE <privilege list=""> ON <relation name="" or="" view=""> FROM <user list="">;</user></relation></privilege>	
	(OR)	
	(assuming table Employee for revoking permissions to user 'RAJ)	
	REVOKE SELECT, INSERT,UPDATE,DELETE ON EMPLOYEE FROM RAJ;	