

M. K. S. S. S. CUMMINS COLLEGE OF ENGINEERING FOR WOMEN, PUNE.

STUDENT'S ROLL NO. :

3330



Agricul 2
Assignment 3
1. Foreign Key Constraint + Syntax
2. Different types of joins + Syntax
3. Index
4. Simple Index
5. Comparend Index
6. Show profiles command 7. Database views
1. Vatabase views
8. Materialized Views
9. Updatable Viens.
1 5 - 1 - 1 - 1 - 1
1. Foreign Keys Cornstraint + Synfax -
The foreign key is a constraint that is used to
prevent actions that would destroy links bet"
of fields) in one table that refers to the
of fields) in one table that refers to the primary key in another table. Foreign keys are used
to maintain data integrity.
to maintain auta inigniy.
ALTER table Books
ADD Column Member_id INT
And Empire Con (Mainter id) REFERENCES Memboss
ADD Foreign key (Member_id) REFERENCES Members (Member_id);
Joins- Joins are dawses that are used to combine
Jours Com 2 /man L block and an a related
rows from 2/more tables based on a related column between them.
courn permeer them.
Notice of the matural internal common
1. Natural Joins - In a natural join, all common columns are displayed only once and only the related
columns are applayed once and only one and only one

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STUDENT'S ROLL NO.: 3330 name in the tables that are having the join SELECT * FROM Books Natural Join Issues; Inner Join - Returns the records that have matching values in both the tables SELECT * FROM Books INNER JOIN ISSUES ON Books, Book_ID = Issues, Brook/d; Left Join - Returns all the records from the left table and the matched records from table The right table. SELECT * FROM Books LEFT JOIN ISSUES ON Books, Book_ID = Issues, Bookid; Right Join - Returns all the records from the right table & the matched records from the left table. The nows for which there is no matching you on left side, the result set will i contain rull, Books, SELECT Book Book id, Books Bookname, Issues Member Id, Issues, Membername FROM Books RIGHT JOIN ISSUES Full Joins ON Books, Book_id = Issues, Bookld;

Full Join - Full Join creates the result set by combining

The result of both left & right join. The result set

The nows for which there is no matching, the result set will contain NVLL values. SELECT Members. Member-id, Members, Membername, Issues, booked, Issues, Bookname FROM Members FULL Join Issues ON Members, Member-id = Issues. Member-id; Cross Join - SQL Cross join produces a result set which is the number of rows in the first table multiplied by the no lof rows in the second table - I no where clause is used, along with Cross join. This kind of result is called as Carlesian Product, If where clause is used then cross join. unctions like inner join. SELECT * FROM Books CROSS DO JOIN ISSUES; Index - Indexes are used to retrieve data from the database more quickly than others. The users cannot see the indexes, they are just used to speed up the searches/querrus. However insert and update querries take longer as index modification overheads introduced. simple notex -The CREATE INDEX statement is used to create indexes in tables. Duplicate values are allowed in indexes. CREATE INDEX index Name ON table-name (cdumn), column2, · - - ·

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If only I column is specified, the index is called as a
simple index. If more than one column is specified then
it is called as a compound index.
SHOW PROFILE or the
Show Profiles Command - The SHOW PROFILES statement
displays profiling information that indicates
displays profiling information that indicates resource usage for statements executed during the
course of the current index. To control profiling
use the profiling sosion variable which has a
default value of O. Enable profiling by setting
profiling to 1/oN.
SET profiling = 1;
SHOW PROFILES displays a list of the most recent statements
sent to the server. The size of the list is controlled by
The profiling-history size session variable, which has a
default value of 15. Man. value is 100. Setting the
value to 0, has the practical effect of disabling
profiling. All statements are profiled except SHOW
PROFILE and SHOW PROFILES, & reither of those
statements appears in the profile list.
Views - A view is a database object that has no
values. 11's contents are based on the base table.
View is a virtual table. It is operated similarly to the
base table but it does not contain any data of its
own. Views are built on top of other tables or views.
If any changes occur in the underlying table, the same changes are reflected in the View also.
same changes are reflected in the View also.

Borno con questa dispersión con con-	CREATE VIEW & Issued (Membername, Bookld, BookName)
	AS
	SELECT Member Name, Book-id, Book-name Tollie
	FROM BISSUES;
	Material and wine 19 th south of
-	Materialized views - When the results of an expression are stored in a database system, they are called as
	materialized views.
	SQL does not provide any standard way of defining
	materialized view however some database management
	Systems provide custom entensions to use materialized
	views. The provess of keeping materialized views
	updated is called as view maintainence.
	Materialized view is useful when the view is
	accessed frequently & as it saves the computation time as
	the results are stored in the database beforehand.
	Materialized view is also useful when the relation on
	which the view is defined is very large & the resulting
	relation of the view is very small.
	Updatable Views - Views can be used to update the
	underlying bose tables. To create an updatable
	view, the SELECT statement that defines the view
	must not contain any of the following -
	1) Aggregate functions such as MIN, MAX, SUM, AVG
	L COUNT
	2) DISTINCT
	3) GROUP BY dauxe A) HAVING dauxe
	s) UNION clause
	J VIVIVIV Summe



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6. UNION ALL COUSE
9) Reference to not updatable view in FROM clause 9) Reference to not updatable view in FROM clause
8) Subquerry in the select clause or in the
WHERE clause that refers to the table anneared in the
FROM Jause
9) Reference to non undatable view in FROM clause
10) multiple releasings to any column of the base
2) Reference to non updatable view in FROM clause 10) multiple references to any column of the base table. Statement The view, must contain a primary key.
The view must contain a primary key
The first conduit a friending key,