Databases 2

Tuesday, 16 June 2020 9:39 AM

	select SELECT
	Select coll, coll
	From table - rank;
Sql Commands	Start Distinct coll and country f
ALTER TABLE:	Select ~
ALTER TABLE lets you add columns to a table in a database.	From USEU;
ALTER TABLE table_name ADD column_name datatype;	
INT	colect O,
AND VARCHAR	table Name;
AND is an operator that combines two conditions. Both conditions must be true for the row to be included in the result set.	Select Col, From table Name; where condition; country = India user Name = Your and user Id = 1923;
<pre>SELECT column_name(s) FROM table_name WHERE column_1 = value_1 AND column_2 = value_2;</pre>	11808 Tol = 123'
Select gender from Person	>
AS	2
AS is a keyword in SQL that allows you to rename a column or table using an alias.	>=
SELECT column_name AS 'Alias' FROM table_name; select colly from table Noth	e As _ <= ,
	a Not</td
AVG()	India
AVG() is an aggregate function that returns the average value for a numeric column.	BETWEEN -
SELECT AVG(column_name) FROM table_name;	LIKE
	IN _
BETWEEN The DETINITIAN exercises is used to filler the result set within a contain reason. The values	2 1 AND (C. rd 2 -
The BETWEEN operator is used to filter the result set within a certain range. The values can be numbers, text or dates.	AND Gord AND (Gord 2 OR Gord OR GORD 2
SELECT column_name(s) FROM table_name WHERE column_name BETWEEN value_1 AND value_2;	OR COMMITTED AND MOTHER
	OR COMMITTED Where NOT C
CASE	
	ORDER BY
	000 000
	SOUT THE WASHES
	skt
	from
	ORDER BY AND, WHEN ame,
	DACC
CASE statements are used to create different outputs (usually in the SELECT statement). It is SQL's way of handling if-then logic.	Age ASC, USBNOWNE DESC
SELECT column_name,	
CASE	
WHEN condition1 THEN 'Result_1'	Insect 9nto
WHEN condition2 THEN 'Result_2'	THOMIT
ELSE 'Result_3'	
END	Fa Delate
FROM table_name;	
	MIN & MAX Select MIN (COIN.) MAX(
COUNT()	MIN A
COUNT() is a function that takes the name of a column as an argument and counts the number of rows where the column is not NULL.	() COLN.) MAXC
SELECT COUNT(column_name) FROM table_name;) (**
	Later Later
	here

count(), Aug(), SUM()

select (ount (user Id) &

from
where contry = 'Idia'; CREATE TABLE creates a new table in the database. It allows you to specify the name of the table and the name of each column in the table. CREATE TABLE table_name (column_2 datatype, column_3 datatype DELETE DELETE statements are used to remove rows from a table DELETE FROM table_name WHERE some_column = some_value; **GROUP BY** Select Contat (Usortal), From
E from User T
CROUPBY Country
OR DADANCE GROUP BY is a clause in SQL that is only used with aggregate functions. It is used in collaboration with the SELECT statement to arrange dentical data into groups. SELECT column_name, COUNT(*) FROM table_name GROUP BY column_name; HAVING HAVING was added to SQL because the WHERE keyword could not be used with colphae (s)-Select SELECT column_name, COUNT(*) FROM table_name where conditions GROUP BY column_name gent by column have having condition (Agg. function) order by column have; rows from different tables if the join condition is true.

Traden age, Subject non count (no. of) DESC teacher. HAVING COUNT(*) > value; **U** An inner join will combine rows from different tables if the join condition is true. SELECT column_name(s) JOIN table_2 INSERT INSERT statements are used to add a new row to a table. INSERT INTO table_name (column_1, column_2, column_3) VALUES (value_1, 'value_2', value_3); usern, Erail, Ph IS NULL and IS NOT NULL are operators used with the WHERE clause to test for empty values. SELECT column name(s) FROM table_name WHERE column_name IS NULL; LIKE

LIKE is a special operator used with the WHERE clause to search for a specific pattern in a

SELECT column_name(s) FROM table_name WHERE column_name LIKE pattern;

ORDERBY.

LIMIT

LIMIT is a clause that lets you specify the maximum number of rows the result set will have.

SELECT column_name(s) FROM table_name LIMIT number;

MAX()

MAX() is a function that takes the name of a column as an argument and returns the largest value in that column.

SELECT MAX(column_name) FROM table_name;

MIN()

MIN() is a function that takes the name of a column as an argument and returns the smallest value in that column.

SELECT MIN(column name) FROM table name:

OR

OR is an operator that filters the result set to only include rows where either condition is true.

SELECT column_name FROM table_name WHERE column_name = value_1 OR column_name = value_2;

ORDER BY

ORDER BY is a clause that indicates you want to sort the result set by a particular column either alphabetically or numerically.

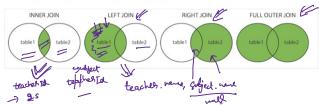
SELECT column_name FROM table_name ORDER BY column_name ASC | DESC;

OUTER JOIN

An outer join will combine rows from different tables even if the join condition is not met. Every row in the left table is returned in the result set, and if the join condition is not met. then NULL values are used to fill in the columns from the right table.

LEFT OUTER JOIN SELECT column_name(s) FROM table_1 LEFT JOIN table_2 & subject

ON table_1.column_name = table_2.column_name;



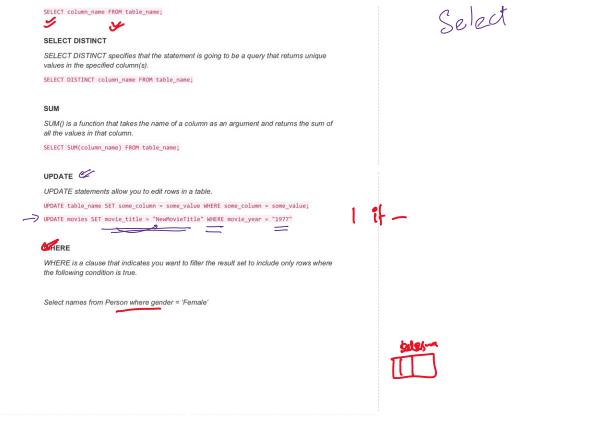
ROUND()

ROUND() is a function that takes a column name and an integer as an argument. It rounds the values in the column to the number of decimal places specified by the integer.

SELECT ROUND(column_name, integer) FROM table_name;

REINEEN Where Age BETWEEN
NOT BETWE

SELECT statements are used to fetch data from a database. Every query will begin with



Retrieving data from Tables

1. SQL statement to display a string "This is SQL Exercise, Practice and Solution "This is SQL Exercise, Practice and Solution" (1) 1. SQL statement to display a string "This is SQL Exercise, Practice and Solution" (2) 1. SQL Statement to display a string "This is SQL Exercise, Practice and Solution" (2) 1. SQL Statement to display a string "This is SQL Exercise, Practice and Solution" (2) 1. SQL Statement to display a string "This is SQL Exercise, Practice and Solution" (2) 1. SQL Statement to display a string "This is SQL Exercise, Practice and Solution" (2) 1. SQL Statement to display a string "This is SQL Exercise, Practice and Solution" (2) 1. SQL Statement (3) 1. SQL Statement (4) 1. SQL

2. SQL query to display the result of an arithmetic expression

3. SQL query to display only name and commission from table salesman

4. SQL query to find the name and price of the cheapest item(s).

Sample table: item_mast

PRO_ID PRO_NAME	PRO.	_PRICE	PRO_COM
101 Mother Board	3200	15	
102 Key Board 103 ZIP drive	450 250	16 14	
104 Speaker	550	16	
105 Monitor 106 DVD drive	5000 900	11 12	
107 CD drive	800	12	
108 Printer	2600	13	
109 Refill cartridge	350	13	
110 Mouse	250	12	

5. SQL query to display the average price of the items for each company, showing only the company code.

Sample table: item_mast

PRO_ID PRO_NAME	PRO_	PRICE	PRO_COM
101 Mother Board 102 Key Board 103 ZIP drive 104 Speaker 105 Monitor 106 DVD drive 107 CD drive 108 Printer 109 Refill cartridge 110 Mouse	3200 450 250 550 5000 900 800 2600 350 250	15 16 14 16 11 12 12 13 13	

6. SQL query to display the name and price of all the items with a price is equal or more than Rs.250, and the list contain the larger price ascending order.

Sample table: item_mast

7. SQL query to find the item name and price in Rs.

Sample table: item_mast

8. SQL query to find all the details of 1970 winners by the ordered to subject and winner name; but the list contain the subject Economic Sample table: nobel_win

YEAR SUBJECT	WINNER	COUNTRY	CATEGORY
1970 Physics 1970 Physics 1970 Physics 1970 Chemistry 1970 Physiology 1970 Physiology 1970 Literature 1970 Economics 1970 Physiology 1971 Physics 1971 Chemistry 1971 Peace 1971 Literature 1971 Economics 1978 Peace	Hannes Alfven Louis Neel Luis Federico Leloir Ulf von Euler Bernard Katz Aleksandr Solzhenitsyn Paul Samuelson Julius Axelrod Dennis Gabor Gerhard Herzberg Willy Brandt Pablo Neruda Simon Kuznets Anwar al-Sadat Menachem Begin	Sweden France France Sweden Germany Russia USA USA Hungary Germany Germany Chile Russia Egypt Israel	Scientist Scientist Scientist Scientist Scientist Scientist Linguist Economist Scientist Scientist Scientist Chancellor Linguist Economist President Prime Minister
1987 Chemistry 1987 Chemistry 1987 Physiology 1994 Economics	Donald J. Cram Jean-Marie Lehn Susumu Tonegawa Reinhard Selten	USA France Japan Germany	Scientist Scientist Scientist Economist
, ,,	ğ .		Economist Prime Minister
1987 Economics 1994 Literature	Robert Solow Kenzaburo Oe	USA Japan	Economist Linguist

Output

year subject winner country category

1970 Literature Aleksandr Solzhenitsyn Russia Linguist

1970 Physics Hannes Alfven Sweden Scientist

1970 Physics Louis Neel France Scientist

1970 Physiology Bernard Katz Germany Scientist

1970 Physiology Julius Axelrod USA Scientist

1970 Physiology Ulf von Euler Sweden Scientist

1970 Chemistry Luis Federico Leloir France Scientist

1970 Economics Paul Samuelson USA Economist

9. SQL to display all the data of employees that work in department 47 or department 63.

Sample table : emp_details

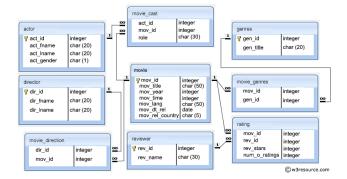
EMP_IDNO EMP_F	NAME EMF	P_LNAME	EMP_DEPT
127323 Michale	Robbin	 57	
526689 Carlos	Snares	63	
843795 Enric	Dosio	57	
328717 Jhon	Snares	63	
444527 Joseph	Dosni	47	
659831 Zanifer	Emily	47	
847674 Kuleswar	Sitaraman	57	
748681 Henrey	Gabriel	47	
555935 Alex	Manuel	57	
539569 George	Mardy	27	
733843 Mario	Saule	63	
631548 Alan	Snappy	27	
839139 Maria	Foster	57	

10. SQL statement to exclude the rows which satisfy 1) order dates are 2012-08-17 and purchase amount is below 1000 2) customer id is purchase amount is below 1000.

Sample table: orders

irch_amt o	ord_date	customer	_id salesman_id
0.5 201	2-10-05	3005	5002
0.65 20	12-09-10	3001	5005
5.26 201	2-10-05	3002	5001
0.5 201	2-08-17	3009	5003
8.5 201	2-09-10	3005	5002
00.6 20	12-07-27	3007	5001
60 201	2-09-10	3002	5001
83.43 20	12-10-10	3004	5006
80.4 20	12-10-10	3009	5003
0.45 20	12-06-27	3008	5002
.29 201	2-08-17	3003	5007
45.6 20	12-04-25	3002	5001
	0.5 201 0.65 20 0.65 20 0.5 201 8.5 201 00.6 20 60 201 83.43 20 80.4 20 0.45 20 .29 201	0.5 2012-10-05 0.65 2012-09-10 .26 2012-08-17 8.5 2012-09-10 00.6 2012-07-27 60 2012-09-10 83.43 2012-10-10 80.4 2012-10-10 0.45 2012-06-27 .29 2012-08-17	0.65 2012-09-10 3001 .26 2012-10-05 3002 0.5 2012-08-17 3009 8.5 2012-09-10 3005 00.6 2012-07-27 3007 60 2012-09-10 3002 83.43 2012-10-10 3004 80.4 2012-10-10 3009 0.45 2012-06-27 3008 .29 2012-08-17 3003

Movie Database



- 1. Write a query in SQL to list all the information of the actors who played a role in the movie 'Annie Hall'.
- 2. Write a query in SQL to find the name of the director (first and last names) who directed a movie that casted a role for 'Eyes Wide Sr