

ALTER DATABASE MyDB READ ONLY=1;

(also modulare source)

(calso modula

ALTER TABLE employees

ALTER TABLE employees

RENAME COLUMN phone number to emil;

To modify Size

ALTER TABLE employees

Modify column email varcher (100);

To change position

ALTER TABLE employees

modify emus varchar(100);

ALTER TABLE employees

modify emus varchar(100);

after table employees

To mosent value inside Table

INSERT INTO employees

VALUES (1, "Eugene", "Knabs", 25.50,

"2023-01-02")

"year month latary

To add multiple elements =

insert into employees values

(), (), ();

where dause.

select \* from employees where

having-pay <= 35;

!=

'select \* from employees where

complayee id!= 1;

'select \* from employees where

have date T.S. Null.

To updat table. updale employees > And y you want to some set hourly-pay = 10,25 changes than use where employee -1d = 106; - commity to set same value troughout (during -update employees set howly-pay=10.25; To use current dale, time and odelete from employees;

It will delete all the tables
always give where dause with it
delete from employees
where employee id = 6; daleterne. · Create table test Consdate date, my Ime time my elaletime date time); When we not want to commot insert into test values changes automatically then use. · get autocomment = off; ( current\_date (), current\_time(), commit; now ()); It will set the thing automatically then you can use current time and dak aurent date() +1 = next day Rallback; current date() -1 = previous day

disable by going to:

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Edit -> Dreferences -> SQL

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Edit -> Panasonic

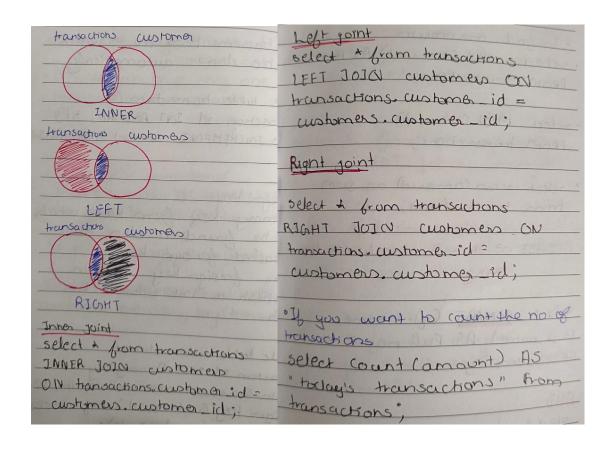
Date: (reptart) < uncheck

Edit -> Unche - Unique constraint · create truble products ( product id INI, product name varchar(25) vollage If we want to already existing teble then we can use alter price DECIMAL (4, 2) No two value should be same · alla tuble products madify price decimal (4,2) NOT OVUL; If we Gaget to add the unique key then we can alter and add - check constraint. · alto tuble products & aller table employees add add constraint constraint chk-hourly-pay unique (product name); check (hourly -pay >= 10.00); to drop the check - alot alo constraint alter tuble employees drop check chk-hourly-pay; · create table products ( product id INT, DEFAULT constraint. If wall be set to default product name varchas (25), pice decimal (4.2) you out should herb price decircal set default 0; );

e Poimary key => It should be unique + not null e A table can have only one primary key constraint e No duplicate and to null value areate tuble transactions ( transaction id INT PRIMARY KEY, amount DECIMPL (5,2)

If already exist then use aller tuble transactions add constraint primary key (transaction id)

· Auto increment -> the increment was be done automatically create table transactions ( hansachon - 1d INT PRIMARY KEY AUTO TO CREMENT, amount DECEMALLS, 2) · Foreign Key · a primary key from tuble which can be found in other tuble is called foreign key. " using foreign key we can establish a link between two tubko. Greate table transactions ( transaction and TOUT Primary key for increment, amount decimals. Coreign Key Customer-1d) References customas (austoma-KI);



· To find maximum · select MAX (amount) As maximus FROM transactions; · select MIN (amount) select & from employees Hom transactions; where job = "cook" GR job="cashie" · select sum canoual as sum from transactions; select & from emplayees where NOT Job = "manager"; ALIASE - It will concatinate two strings BETWEED select \* from employees Select CONCAT Cfirst name, where hime date BETWEEO "2013-01-04 last name ) AS Full name ACND "2023 -01-07"; FROM employees; IN CUA select \* from employees select & from employees where gob IN ("cook", "cashier", where hie date ("1013-62-5" AND ',00 >" cook"; "Janitor");

\* Pattern Matching · Wild card characters %. WHERE Warre LIKE ' a%' used to substitude one or mo. WHERE Name LIKE 1960' characters in a string WHERE Clame LIKE '% a %' WHERE Clame LIKE 'a 40' LIKE = It is use in where WHERE Customer alame LIKE 'a % dause to search too any WHERE Contact Name LIKE 'a %4, patter. - => It represent one random when we want to notion the letter name strategy with sat that \* Order by clause = arranged in time we will be using. 15) along with 10/0 also the IIKE operator will be used · select \* from employees GROER By last name; select & from employees where first name like "50%"; · select + from employees ORDER BY last name DESC; ishamewill end with it descending orden

· Limit clause is used to limit the number cab records. · Useful of you're working with a lot of data. · can be used to display a large data on pages (paghation) - select + from customers Limit 3; we can find the highest ces lowest when we combine it with order by dause - select & from customers order by last name, limet 1; It will like the number of elements

using coffsel is very weful when working with large data set siled & from customers limit 3, 1 ", o'bbse+ · Union combines the results two or more SELECT OI will not include duplicate values statements It should seled \* from Income no. of coloums union seled & from expenses; The we want to pegam the usion of two tube and they are not equal in size then we can not resporm union operation.

union all - It will include all elemenent even the duplical one. · Self JOIN for another copy of a table to Ptself · used to compare sous of the same table · helps to display a heirarchy al duta select a customer id, a first name a last name, CONCAT (b. frot name " " b. last name) As "referred by from customas As a INNER JOIN austoners As b an a referral id = b. customer-id

News through truble based on the rout set of an SQL statement.

The fields in a view are fields from one or more real trubles in the database

They're not real trubles but can be interacted with as if they were.

Create view employee attendance

As select least pame last name.

Creale view employee attendance
AS 8 elect Grost-name, last-name
FROM employees;

select + from employee attendance;

· acak finder last name first name ich on australia (lastrane, first name); · show indexes from austromeas; \* subquery · a query within another query · INDEX (BIREE data structure) · Indexes are used to bind ic guay (subquery) values within a specific colony-· solect first name, last name, housing pay , more quickly . Mysqu normally searcho (select aug(howly pay) from employees) sequentially through a column As any pay . The longer the column, the more expensive the operation as from employees; · UPDATE tukes more time, · select first name, last name, howely pay from SELECT takes lear hime : employees where hously pay > Iselect angenously-pay) from employees); · create index last name lidx On austomore (last name); · select first name , bust name from customers where australes id IN · show indexes from customers; (select distinct austonies -il · select + from customers from transactions where last name = " Puffice where customer-id is not null);

add additional with grand total (Rollup) extension of the GROUP by davos · Grap By = aggregate all roust \* products another now and shows the GRAND TOTAL Couper-aggregate a specific column after used with aggregate functions · Select (aunt Chansaction Sch) As "# of order" ex SUMO, MAXO, MICYCO, AUGO, customer id from transactions count(); group by customer id with rollup; · select sum(amount), order date · select sum hourly -pay) As "hourly pay", from transactions emplayee id from employees group by order date; group by employee id with Rollup; ON DELETE SET OUL - when a FK · select (count (comount), customa id is deleted, replace fx with QUIL from transactions ON DELETE CASCADE = when a fk group by austomer id; is deleted, delete now Aller table transactions uples using group by clause use will use having clause it will get sure as any Add constraint fk customer set foreign key (ruotomer id) Reforences it will act same as group austomer id ON Peleke by clause

DELIMILER \$5 Great procedure God-customer (IN Id I (IT) BEGIOV select \* aller tuble transactions add constraint fk\_transactions\_id from customers Foreign Key (ustomer -id) Reference - END \$5 where customer id = id; customers (customer id) on delete conscarle; DELIMITER; · Stored procedure = 10 prepared · CALL find - Clotomer (1); sol code that goo can save - DELIMITER \$\$ great 16 HBe's a query that Creale procedure find customer you write aften. CIN 6-hame VARCHAR (50), (JOV I name VARCHAR (50)) DELIMITER \$\$ BIGIGI Create procedure get\_customers() select + from austomen where first name = bname 3elect + from austomers; E OVD \$\$ AND last - name = 1 name; ECVD \$\$ DELIMITER: DELIMILER; ' (all bind-awtomer ("Lary", "labotor") (All yet customers ();

Stared procedure = is prepared son code that you can save · creak torger before havely pay update great if there's every that you before update on employees write often. - reduces network traffec has each row Set NEW salary = (NEW hously pay \* 2086); - Increasos performance - secure, admin can grant · show tregger; pormission house - increases memory usage aferon · update employees connection see hourly-pay = 50 where employee\_id = 1; select \* from employees; · Tregger: when an event happens, do something It will change the details of salary when houndy pay is changed as trigger is called. ex (INSERT, UPDATE, DELETE) checks data, hunder errors auditing tables in case of update operation LEDATE employees · update employees set sulary 2 house pry + 2080; select & from employed; ser tourly-pay = hourly-pay + 1; seled & from employees;