MYSQL QUERIES

- CREATE TABLE creates a new table
- ALTER TABLE modifies a table
- INSERT INTO inserts new data into a database
- DROP COLUMN- deletes a specified column in a table
- SELECT extracts data from a database
- INNER JOIN: Returns records that have matching values in both tables
- LEFT JOIN: Returns all records from the left table, and the matched records from the right table
- RIGHT JOIN: Returns all records from the right table, and the matched records from the left table
- CROSS JOIN: Returns all records from both tables

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CREATE TABLE Batch (Batch_id INT PRIMARY KEY, Batch_name VARCHAR(25));

create table Student (Stu_id INT PRIMARY KEY, Stu_name VARCHAR(25),Batch_id INT,
foreign key (Batch_id) references Batch(Batch_id),Batch_name VARCHAR(25));

ALTER TABLE Student change column Batch_name BatchTiming varchar(25);

INSERT INTO Batch(Batch_id,Batch_name)
values(100,"WeekDay"),(101,"WeekDay"),(102,"WeekEnd"),(103,"WeekEnd");

INSERT INTO Student(Stu_id,Stu_name,Batch_id,BatchTiming)
values(01,"A",100,"9am"),(02,"B",101,"9am"),(03,"C",102,"10am"),(04,"D",103,"10am");

-- DESC Batch;
-- DESC Batch;
-- DESC Student;

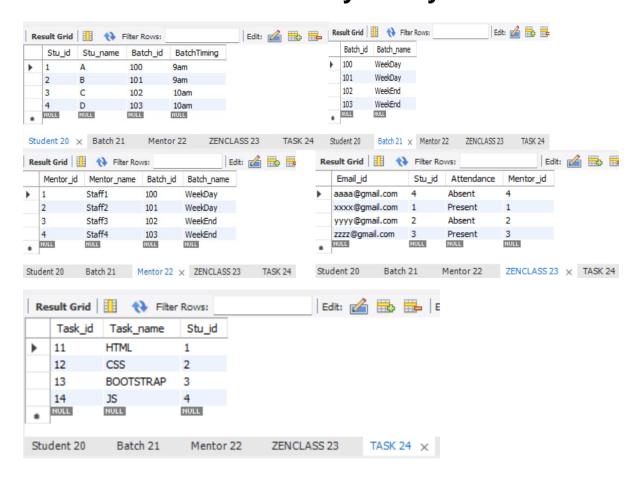
Select * from Student;

Select * from Student;

CREATE TABLE Mentor (Mentor_id INT PRIMARY KEY, Mentor_name varchar(25),Batch_id INT,
foreign key (Batch_id) references Batch(Batch_id), Batch_name varchar (25));
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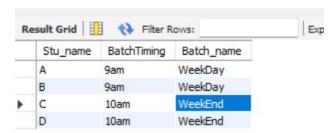
CREATE TABLE ZENCLASS (Email id VARCHAR(50) PRIMARY KEY, Stu id INT, Attendance VARCHAR(25), Mentor_id INT, foreign key (Mentor id) references Mentor(Mentor id), foreign key (Stu id) references Student(Stu id)); INSERT INTO Mentor (Mentor id, Mentor name, Batch id, Batch name) values (001, "Staff1", 100, "WeekDay"), (002, "Staff2", 101, "WeekDay"), (003, "Staff3", 102, "WeekEnd"), (004, "Staff4") ",103,"WeekEnd"); INSERT INTO ZENCLASS (Email_id,Stu_id,Attendance,Mentor_id) values ("xxxx@gmail.com",01,"Present",001),("yyyy@gmail.com",02,"Absent",002),("zzzz@gmail.com",03,"Pre sent",003),("aaaa@gmail.com",04,"Absent",004); Select * from Mentor; SELECT * FROM ZENCLASS; CREATE TABLE TASK (Task_id INT PRIMARY KEY, Task_name VARCHAR(25), Stu_id INT, Mentor_id INT, foreign key (Stu_id) references Student(Stu_id)); ALTER TABLE TASK DROP COLUMN Mentor_id; INSERT INTO TASK (Task_id,Task_name,Stu_id) values (11,"HTML",01),(12,"CSS",02),(13,"BOOTSTRAP",03),(14,"JS",04); Select * from Student; SELECT * FROM Batch; Select * from Mentor; SELECT * FROM ZENCLASS; SELECT * FROM TASK;

Created Table with Inserted Values:

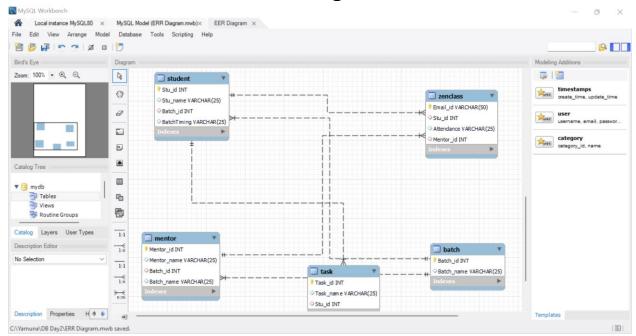


SELECT Student.Stu_name,Student.BatchTiming, Batch.Batch_name from Student inner join Batch on Student.Batch_id = Batch.Batch_id;

INNER JOIN Executed Output:

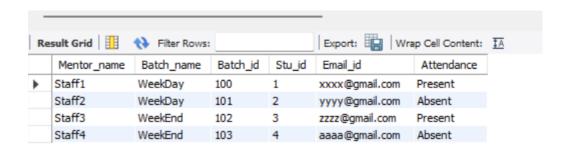


EER Diagram



MySQL LEFT JOIN

SELECT Mentor.Mentor_name,Mentor.Batch_name, Mentor.Batch_id,
ZENCLASS.Stu_id,ZENCLASS.Email_id,ZENCLASS.Attendance FROM Mentor LEFT JOIN ZENCLASS ON
Mentor.Mentor_id=ZENCLASS.Mentor_id;



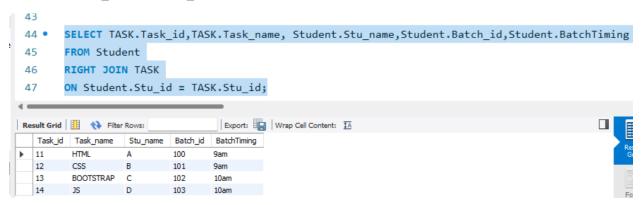
MySQL RIGHT JOIN Keyword

 $SELECT\ TASK. Task_id, TASK. Task_name, Student. Stu_name, Student. Batch_id, Student. BatchTiming$

FROM Student

RIGHT JOIN TASK

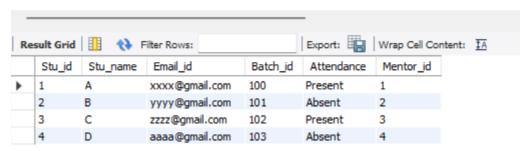
ON Student.Stu_id = TASK.Stu_id;



Full Join

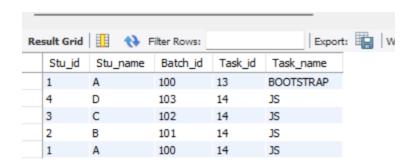
SELECT Student.Stu_id, Student.Stu_name, ZENCLASS.Email_id,Student.Batch_id,ZENCLASS.Attendance ,ZENCLASS.Mentor_id FROM Student

JOIN ZENCLASS ON Student.Stu_id = ZENCLASS.Stu_id;



cross join

SELECT Student.Stu_id, Student.Stu_name, Student.Batch_id,TASK.Task_id,TASK.Task_name FROM Student CROSS JOIN TASK;



LIMIT AND OFFSET

SELECT * FROM Student

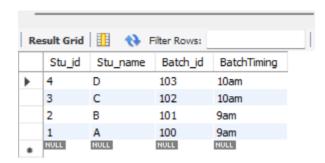
LIMIT 1 OFFSET 2;



ORDER BY:

SELECT * FROM Student

order by Stu_id desc;



GROUP BY

SELECT Batch_name FROM Batch group by Batch_name;

