

SchoolNova



IT102

SQL Select Statement

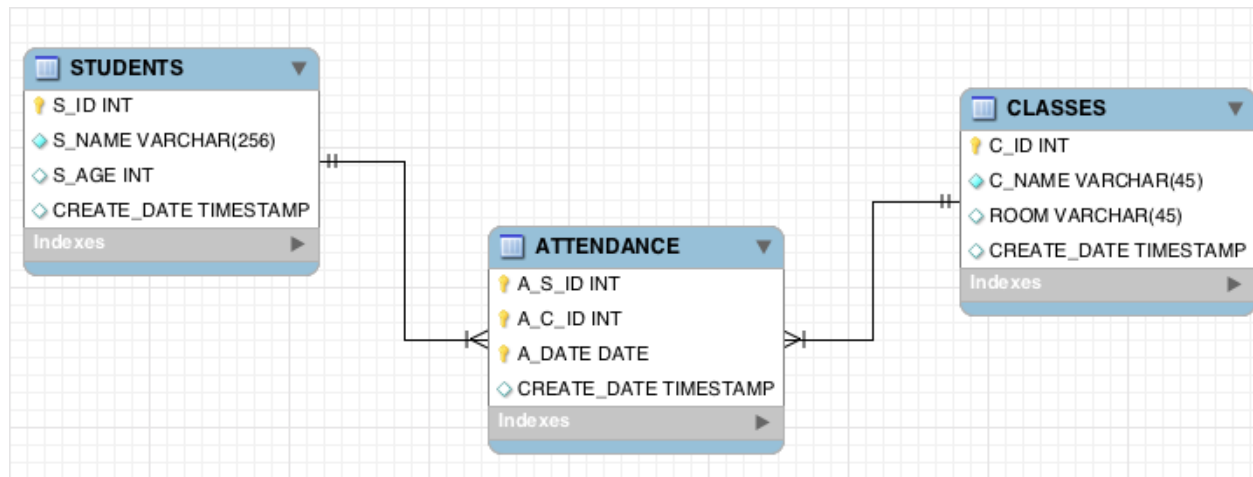
Basic SQL Query

SELECT target list
FROM relation list
WHERE qualification

- **Relation list:** A list of relation names (tables, views)
- **Target list:** A list of attributes of relations in relation-list (table column names)
- **Qualification:** Comparisons (<, >, =, ≤, ≥, ≠) combined using AND, OR and NOT.

<http://dev.mysql.com/doc/refman/5.0/en/select.html>

Examples and Exercises



```
SELECT * FROM STUDENTS;
```

```
SELECT DISTINCT S_NAME, S_AGE, C_NAME, ROOM
FROM STUDENTS, CLASSES, ATTENDANCE
WHERE S_ID = A_S_ID AND
      C_ID = A_C_ID;
```

```
SELECT S_ID, S_NAME, S_AGE
FROM STUDENTS
WHERE S_ID NOT IN (SELECT A_S_ID FROM ATTENDANCE);
```

```
SELECT COUNT(*) FROM STUDENTS, ATTENDANCE WHERE
S_ID = A_S_ID AND A_DATE = '2014-10-05';
```

```
SELECT * FROM STUDENTS WHERE S_NAME LIKE 'L%';
```

- Download the following files and run them in your MySQL Workbench:

http://www.schoolnova.org/student_area/IT102/Attendance.ddl

http://www.schoolnova.org/student_area/IT102/Attendance.sql

- List student's name and age of those students who attended the IT102a class on Oct. 5, 2014
- List all students who are 14 years old;
- List all students who are less than 14 years old and attended at least one class. Include the class name alongside the student name.
- List all student's who's name starts with 'V';

Homework

- Using the Attendance database we created in class, find the following:
 - ◆ List all classes;
 - ◆ List all students whose name starts with 'B';
 - ◆ List all students who missed the Oct. 5 class;
- How should the data model be changed to account for the fact that the first 6 weeks the classes were held in the Harriman 102 room, and only the last two weeks the classes were held in the MLS room?