

# DBMS

## LAB – QUIZ

**NAME :** SANMAT SANJAYAKUMAR PAYAGOUDAR

**SRN :** PES1UG20CS385

**SET 1.**

# DATA BASE Creation :

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0019 seconds.)

```
CREATE TABLE STUDENT_385 ( Name varchar(30) not null, StudentNumber int not null, Class int not null, Major varchar(4), CONSTRAINT STUDENT_385_pk PRIMARY KEY(StudentNumber) );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

⚠ Warning: #1280 Name 'STUDENT\_385\_pk' ignored for PRIMARY key.

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE COURSE_385 ( CourseName varchar(30) not null, CourseNumber varchar(8) not null, CreditHours int not null, Department varchar(4), CONSTRAINT COURSE_385_pk PRIMARY KEY(CourseNumber) );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

⚠ Warning: #1280 Name 'COURSE\_385\_pk' ignored for PRIMARY key.

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE SECTION_385 ( SectionIdentifier int not null, CourseNumber varchar(8) not null, Semester varchar(6) not null, Year int not null, Instructor varchar(30) not null, CONSTRAINT SECTION_385_pk PRIMARY KEY(SectionIdentifier), CONSTRAINT SECTION_385_cn_fk FOREIGN KEY(CourseNumber) REFERENCES COURSE_385(CourseNumber) ON DELETE CASCADE ON UPDATE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

⚠ Warning: #1280 Name 'SECTION\_385\_pk' ignored for PRIMARY key.

■ Console

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE GRADE_REPORT_385 ( StudentNumber int not null, SectionIdentifier int not null, Grade char(1), CONSTRAINT GRADE_REPORT_385_pk PRIMARY KEY(StudentNumber,SectionIdentifier), CONSTRAINT GRADE_REPORT_385_sn_fk FOREIGN KEY(StudentNumber) REFERENCES STUDENT_385(StudentNumber) ON DELETE CASCADE ON UPDATE CASCADE, CONSTRAINT GRADE_REPORT_385_si_fk FOREIGN KEY(SectionIdentifier) REFERENCES SECTION_385(SectionIdentifier) ON DELETE CASCADE ON UPDATE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

⚠ Warning: #1280 Name 'GRADE\_REPORT\_385\_pk' ignored for PRIMARY key.

✔ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
CREATE TABLE PREREQUISITE_385 ( CourseNumber varchar(8) not null, PrerequisiteNumber varchar(8) not null, CONSTRAINT PREREQUISITE_pk PRIMARY KEY(CourseNumber,PrerequisiteNumber), CONSTRAINT PREREQUISITE_385_cn_fk FOREIGN KEY(CourseNumber) REFERENCES COURSE_385(CourseNumber) ON DELETE CASCADE ON UPDATE CASCADE, CONSTRAINT PREREQUISITE_385_pn_fk FOREIGN KEY(PrerequisiteNumber) REFERENCES COURSE_385(CourseNumber) ON DELETE CASCADE ON UPDATE CASCADE );
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

⚠ Warning: #1280 Name 'PREREQUISITE\_pk' ignored for PRIMARY key.

✔ 3 rows inserted. (Query took 0.0007 seconds.)

```
INSERT into STUDENT_385 values ('Madhavan',154,3,'CS'), ('Ram',15,4,'CS'), ('Akash',17,4,'CS');
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 4 rows inserted. (Query took 0.0013 seconds.)

```
INSERT into COURSE_385 values ('DSA','16CS237',4,'CS'), ('DBMS','16CS154',4,'CS'), ('DMS','16CS243',3,'CS'), ('OS','16CS180',3,'CS');
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 6 rows inserted. (Query took 0.0003 seconds.)

```
INSERT into SECTION_385 values (1,'16CS243','3',2001,'Prof1'), (2,'16CS237','3',2003,'Prof2'), (3,'16CS154','5',2005,'Prof3'), (4,'16CS243','3',2006,'Prof4'), (5,'16CS237','3',2019,'Prof2'), (6,'16CS180','3',2004,'Prof5');
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 8 rows inserted. (Query took 0.0003 seconds.)

```
INSERT into GRADE_REPORT_385 values (154,4,'C'), (154,5,'B'), (15,1,'A'), (15,2,'A'), (15,3,'A'), (15,6,'A'), (17,4,'C'), (17,5,'B');
```

[ Edit inline ] [ Edit ] [ Create PHP code ]

✔ 3 rows inserted. (Query took 0.0003 seconds.)

```
INSERT into PREREQUISITE_385 values ('16CS180','16CS154'), ('16CS180','16CS243'), ('16CS154','16CS237');
```

■ Console

[ Edit inline ] [ Edit ] [ Create PHP code ]

## 1. Query :

```
SELECT CourseName FROM COURSE_385 JOIN SECTION_385 ON  
COURSE_385.CourseNumber = SECTION_385.CourseNumber WHERE  
SECTION_385.Year BETWEEN "2001" AND "2004";
```

## Output:

Hide query box

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available. ⓘ

✓ Showing rows 0 - 2 (3 total, Query took 0.0016 seconds.)

SELECT CourseName FROM COURSE\_385 JOIN SECTION\_385 ON COURSE\_385.CourseNumber = SECTION\_385.CourseNumber WHERE SECTION\_385.Year BETWEEN "2001" AND "2004";

☐ Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

☐ Show all | Number of rows: 25 ▾ | Filter rows: Search this table | Sort by key: None ▾

Extra options

CourseName

DMS

DSA

OS

## 2. Query :

```
create table Student_Report_385 as select StudentNumber, CourseNumber,  
case  
when Grade = 'A' then 100  
when Grade = 'B' then 90  
when Grade = 'C' then 80  
end as Marks  
from grade_report_385 natural join section_385 natural join COURSE_385
```

## Output:

Show query box

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

CREATE TABLE Student\_Report\_385( StudentNumber int not null, CourseNumber varchar(8) not null, Marks INT(5) );

[ Edit inline ] [ Edit ] [ Create PHP code ]

✓ Showing rows 0 - 7 (8 total, Query took 0.0024 seconds.)

`SELECT * FROM `student_report_385``

☐ Profiling [ [Edit inline](#) ] [ [Edit](#) ] [ [Explain SQL](#) ] [ [Create PHP code](#) ] [ [Refresh](#) ]

☐ Show all | Number of rows: 25 ▼ Filter rows:

Extra options

StudentNumber	CourseNumber	Marks
15	16CS154	100
15	16CS180	100
15	16CS237	100
17	16CS237	90
154	16CS237	90
15	16CS243	100
17	16CS243	80
154	16CS243	80

☐ Show all | Number of rows: 25 ▼ Filter rows:

### 3. Query :

```
create table student_statistics_385(
totalmarks int not null,
avgmarks int not null
);

delimiter //
create trigger save_current_total_avg
after insert
on Student_Report_385 for each row
begin
    insert into student_statistics_385(totalmarks, avgmarks)
    select sum(marks), (sum(marks) / count(*))
    from Student_Report_385;
end//
delimiter ;
```

### Output :

[Show query box](#)

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0051 seconds.)

`create trigger save_current_total_avg after insert on Student_Report_385 for each row begin insert into student_statistics_385(totalmarks, avgmarks) select sum(marks), (sum(marks) / count(*)) from Student_Report_385; end;`

[ [Edit inline](#) ] [ [Edit](#) ] [ [Create PHP code](#) ]