

OUTPUT

```
mysql> CREATE TABLE arts(  
  -> serial_no INT AUTO_INCREMENT, name VARCHAR(15),  
  -> student_id INT, event VARCHAR(10),  
  -> grade ENUM('A','B','C'), PRIMARY KEY(serial_no));
```

```
mysql> CREATE TABLE sports(  
  -> serial_no INT AUTO_INCREMENT, student_id INT,  
  -> name VARCHAR(15), grade ENUM('A','B','C'),  
  -> item VARCHAR(10), PRIMARY KEY(serial_no));
```

sports

serial_no	student_id	name	grade	item
1	33	Jobin	A	cricket
2	45	Jaya	C	cricket
3	59	Sujith	A	cricket

arts

serial_no	name	student_id	event	grade
1	Jelan	32	music	A
2	Jobin	33	dance	B
3	Joel	34	painting	C
4	Sujith	59	painting	A

a)

```
mysql> SELECT student_id, name FROM arts  
  -> UNION  
  -> SELECT student_id, name FROM sports;
```

student_id	name
32	Jelan
33	Jobin
34	Joel
59	Sujith
45	Jaya

5 rows in set (1.16 sec)

b)

```
mysql> SELECT student_id, name FROM sports  
  -> INTERSECT  
  -> SELECT student_id, name FROM arts;
```

student_id	name
33	Jobin
59	Sujith

c)

```
mysql> SELECT student_id, name FROM sports
-> EXCEPT
-> SELECT student_id, name FROM arts;
+-----+-----+
| student_id | name |
+-----+-----+
|          45 | Jaya |
+-----+-----+
1 row in set (0.00 sec)
```

d)

```
mysql> CREATE TABLE project(
-> student_name VARCHAR(15),
-> project_title VARCHAR(20),
-> expense INT);
```

project

```
+-----+-----+-----+
| student_name | project_title | expense |
+-----+-----+-----+
| Sujith       | social media  | 50000   |
| Jelan        | e commerce website | 75000   |
| Joel         | ai powered chatbot | 25000   |
+-----+-----+-----+
```

```
mysql> SELECT * FROM project
-> WHERE expense = (
-> SELECT MAX(expense)
-> FROM project);
```

```
+-----+-----+-----+
| student_name | project_title | expense |
+-----+-----+-----+
| Jelan        | e commerce website | 75000   |
+-----+-----+-----+
1 row in set (0.60 sec)
```