

In a database create the following tables with suitable constraints :

In a database create the following tables with suitable constraints. Create Table Command
Tutorial

Table : STUDENT

AdmNo	Name	Class	Sec	RNo	Address	Phone
1271	Utkarsh Madaan	12	C	1	C-32, Punjabi Bagh	4356154
1324	Naresh Sharma	10	A	1	31, Mohan Nagar	435654
1325	Md. Yusuf	10	A	2	12/21, Chand Nagar	145654
1328	Sumedha	10	B	23	59, Moti Nagar	4135654
1364	Subya Akhtar	11	B	13	12, Janak Puri	NULL
1434	Varuna	12	B	21	69, Rohini	NULL
1461	David DSouza	11	B	1	D-34, Model Town	
2324	Satinder Singh	12	C	1	1/2, Gulmohar Park	143654

2328	Peter Jones	10	A	18	21/32B, Vishal
Enclave	24356154				

2371	Mohini Mehta	11	C	12	37, Raja Garden
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Table : SPORTS

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Write SQL commands based on the above tables.

Q1. Display the lowest and the highest classes from the table STUDENTS.

Q2. Display the number of students in each class from the table STUDENTS.

Q3. Display the number of students in class 10

Q4. Display details of the students of Cricket team

Q5. Display the Admission number, name, class, section, and roll number of the students whose grade in the Sports table is 'A'.

Q6. Display the name and phone number of the students of class 12 who are playing some game.

Q7. Display the number of students with each coach.

Q8. Display the names and phone numbers of the students whose grade is 'A' and whose coach is Narendra.

Q9. Identify the Foreign Keys (if any) of these tables. Justify your choices

Q10. Predict the output of each of the following SQL statements, and then verify the output by actually entering these statements ([MySQL Join](#))

i. SELECT class, sec, count(*) FROM students GROUP BY class, sec;

ii. SELECT Game, COUNT(*) FROM Sports GROUP BY Game;

iii. SELECT game, name, address FROM students, Sports WHERE students.admno = sports.admno AND grade = 'A';

iv. SELECT Game FROM students, Sports WHERE students.admno = sports.admno AND Students.AdmNo = 1434;

Create the following table in your database with suitable constraints. [Tutorial on MySQL Create Table command](#)

Table : ITEMS

I_Code	Name	Category	Rate
1001	Masala Dosa	South Indian	60
1002	Vada Sambhar	South Indian	40
1003	Idli Sambhar	South Indian	40
2001	Chow Mein	Chinese	80
2002	Dimsum	Chinese	60
2003	Soup	Chinese	50
3001	Pizza	Italian	240
3002	Pasta	Italian	125

Table : BILLS

BillNo	Date	I_Code	qty
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1	2010-04-01	1002	2
1	2010-04-01	3001	1
2	2010-04-01	1001	3
2	2010-04-01	1002	1
2	2010-04-01	2003	2
3	2010-04-02	2002	1
4	2010-04-02	2002	4
4	2010-04-02	2003	2
5	2010-04-03	2003	2
5	2010-04-03	3001	1
5	2010-04-03	3002	3

Based on the above table write SQL commands

Q11. Display the average rate of a South Indian item

Q12. Display the number of items in each category.

Q13. Display the total quantity sold for each item

Q14. Display total quantity of each item sold but don't display this data for the items whose total quantity sold is less than 3.

Q15. Display the details of bill records along with the Name of each corresponding item.

Q16. Display the details of the bill records for which the item is 'Dosa'.

Q17. Display the bill records for each Italian item sold.

Q18. Display the total value of items sold for each bill.

In a database create the following Tables with suitable constraints.

Table : VEHICLE

Field	Type	Null	Key	Default	Extra
RegNo	char(10)	NO	PRI		
RegDate	date	YES		NULL	
Owner	varchar(30)	YES		NULL	
Address	varchar(50)		YES		NULL

Table : CHALAAN

Field	Type	Null	Key	Default	Extra
Challan_No	int(11)	NO	PRI	0	
ch_date	date	Yes		NULL	
RegNo	char(10)	YES		NULL	

Offence	int(3)	YES		NULL		
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Table : OFFENCE						
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Field	Type	Null	Key	Default	Extra	
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Offence_Code	int(3)	NO	PRI	0		
Off_desc	varchar(30)	YES		NULL		
Challan_Amt	int(4)	YES		NULL		
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Based on the above Tables Write SQL commands

Q19. Display the dates of first registration and last registration from the table Vehicle.

Q20. Display the number of challans issued on each date.

Q21. Display the total number of challans issued for each offence.

Q22. Display the total number of vehicles for which the 3rd and 4th characters of RegNo are '6C'.

Q23. Display the total value of challans issued for which the Off_Desc is 'Driving without License'.

Q24. Display details of the challans issued on '2010-04-03' along with Off_Desc for each challan.

Q25. Display the RegNo of all vehicles which have been challaned more than once.

Q26. Display details of each challan along with vehicle details, Off_desc, and Challan_Amt