

**SUMMER FIELDS SCHOOL**  
**CLASS - XII; SUB-COMPUTER SCIENCE**  
**ASSIGNMENT**

1) Consider the following tables. Write the SQL commands for the statements (i) to (iv) and give outputs for the SQL queries (v) to (viii).

Table : VEHICLE		
CODE	VTYPE	PERKM
101	VOLVO BUS	160
102	AC DELUXE BUS	150
103	ORDINARY BUS	90
105	SUV	40
104	CAR	20

Table : TRAVEL					
No.	NAME	TDATE	KM	CODE	NOP
101	Janish Kin	2015-11-13	200	101	32
103	Vedika Sabai	2016-04-21	100	103	45
105	Tarun Ram	2016-03-23	350	102	42
102	John Fen	2016-02-13	90	102	40
107	Ahmed Khan	2015-01-10	75	104	2
104	Raveena	2016-05-28	80	105	4
106	Kripal Anya	2016-02-06	200	101	25

Note :

- (i) To display NO, NAME, TDATE from the table TRAVEL in descending order of NO.
- (ii) To display the NAME of all the travellers from the table TRAVEL who are travelling by vehicle with code 101 or 102.
- (iii) To display the NO and NAME of those travellers from the table TRAVEL who travelled between '2015-12-31' and '2015-04-01'.
- (iv) To display all the details from table TRAVEL for the travellers, who have travelled distance more than 100 KM in ascending order of NOP.
- (v) `SELECT COUNT (*), CODE FROM TRAVEL  
GROUP BY CODE HAVING COUNT (*) > 1;`
- (vi) `SELECT DISTINCT CODE FROM TRAVEL;`
- (vii) `SELECT A.CODE, NAME, VTYPE  
FROM TRAVEL A, VEHICLE B  
WHERE A.CODE=B.CODE AND KM < 90;`
- (viii) `SELECT NAME, KM*PERKM  
FROM TRAVEL A, VEHICLE B  
WHERE A.CODE=B.CODE AND A.CODE='105';`

2) Find the cardinality and degree of the table LIST. Write the name of the RDBMS operation of the table STUDENTS AND EVENTS applied to produce the output table LIST.

STUDENTS	
No.	NAME
1	TARA Mani
2	Jaya Sarkar
3	Tarini Trikha

EVENTS	
EVENTCODE	EVENTNAME
1001	Programming
1002	IT Quiz

LIST			
No	NAME	EVENTCODE	EVENTNAME
1	Tara Mani	1001	Programming
1	Tara Mani	1002	IT Quiz
2	Jaya Sarkar	1001	Programming
2	Jaya Sarkar	1002	IT Quiz
3	Tarini Trikha	1001	Programming
3	Tarini Trikha	1002	IT Quiz

- 3) Define the primary key, alternate key and candidate key of a table with the help of one or more examples.
- 4) Explain the concept of union between two tables with the help of appropriate examples.