**SW918B Shinetsetseg**

**Question 101**

1. CREATE TABLE VEHICLE (

VCODE CHAR(3) NOT NULL PRIMARY KEY,

VEHICLETYPE VARCHAR(50) NOT NULL,

PERKM INT NOT NULL

);

INSERT INTO vehicle VALUES('V01', 'VOLVO BUS', 150);

INSERT INTO vehicle VALUES('V02', 'AC DELUXE BUS', 125);

INSERT INTO vehicle VALUES('V03', 'ORDINARY BUS', 80);

INSERT INTO vehicle VALUES('V04', 'SUV', 30);

INSERT INTO vehicle VALUES('V05', 'CAR', 18);

1. CREATE TABLE TRAVEL (

CNO INT NOT NULL PRIMARY KEY AUTO\_INCREMENT,

CNAME VARCHAR(30) NOT NULL,

KM INT NOT NULL,

VCODE CHAR(3) NOT NULL,

NOP INT NOT NULL,

FOREIGN KEY(VCODE) REFERENCES VEHICLE(VCODE)

)

ALTER TABLE travel ADD TRAVELDATE DATE not null

INSERT INTO travel VALUES(101, 'K. Nival', 200, 'V01', 32, ‘2015-12-13’);

INSERT INTO travel VALUES(103, 'Fredrick Sym', 120, 'V03', 45, '2016-03-21');

INSERT INTO travel VALUES(105, 'Hitesh Jain', 450, 'V02', 45, '2016-04-23');

INSERT INTO travel VALUES(102, 'Ravi Anish', 80, 'V02', 45, '2016-01-13');

INSERT INTO travel VALUES(107, 'John Malina', 65, 'V04', 45, '2015-02-10');

INSERT INTO travel VALUES(104, 'Sahanubhuti', 90, 'V05', 45, '2016-01-28');

INSERT INTO travel VALUES(106, 'Ramesh Jaya', 100, 'V01', 45, '2016-04-06');

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| NO | QUESTION | QUERY | RESULT |
| 1 | To display CNO, CNAME, TRAVELDATE from the table TRAVEL in descending order of CNO. | SELECT CNO, CNAME, TRAVELDATE FROM travel ORDER BY CNO DESC; |  |
| 2 | To display the CNAME of all customers from the table TRAVEL who are travelling by vechicle with code Vo1 or Vo2 | SELECT CNAME FROM travel WHERE VCODE = 'V01' OR VCODE = 'V02'; |  |
| 3 | To display the CNO and CNAME of those customers from the table TRAVEL who travelled between ‘2015-12¬31’ and ‘2015-05-01’. | SELECT CNO, CNAME FROM travel WHERE TRAVELDATE between '2015-05-01' and '2015-12-31'; |  |
| 4 | To display all the details from table TRAVEL for the customers, who have travel distacne more than 120 KM in ascending order of NOE | SELECT \* FROM travel WHERE KM > 120 ORDER BY NOP ASC; |  |
| 5 | SELECT COUNT (\*), VCODE FROM TRAVEL GROUP BY VCODE HAVING COUNT (\*) > 1; | SELECT COUNT(\*), VCODE FROM TRAVEL GROUP BY VCODE HAVING COUNT(\*) > 1; |  |
| 6 | SELECT DISTINCT VCODE FROM TRAVEL : | SELECT DISTINCT VCODE FROM TRAVEL; |  |
| 7 | SELECT A.VCODE, CNAME, VEHICLETYPE FROM TRAVEL A, VEHICLE B WHERE A. VCODE = B. VCODE and KM < 90; | SELECT A.VCODE, CNAME, VEHICLETYPE FROM TRAVEL A, VEHICLE B WHERE A. VCODE = B. VCODE and KM < 90; |  |
| 8 | SELECT CNAME, KM\*PERKM FROM TRAVEL A, VEHICLE B WHERE A.VCODE = B.VCODE AND A. VCODE ‘V05’; | SELECT CNAME, KM\*PERKM FROM TRAVEL A, VEHICLE B WHERE A.VCODE = B.VCODE AND A. VCODE ‘V05’; |  |

**Question 102**

1. CREATE TABLE SCHOOL (

CODE INT NOT NULL AUTO\_INCREMENT PRIMARY KEY,

TEACHER VARCHAR(30) NOT NULL,

SUBJECT VARCHAR(20) NOT NULL,

DOJ DATE NOT NULL,

PERIODS INT(2) NOT NULL,

EXPERIENCE INT(2) NOT NULL

)

INSERT INTO school(CODE, TEACHER, SUBJECT, DOJ, PERIODS, EXPERIENCE) VALUES

(1009, 'PRIYA RAI', 'PHYSICS', '03/09/1998', 26, 12),

(1001, ' RAVI SHANKAR', ENGLISH, ' 12/03/2000', 24, 10),

(1045, 'YASHRAJ', 'MATHS', '24/08/2000', 24, 15),

(1123, 'GANAN', 'PHYSICS', '16/07/1999', 28, 3),

(1167, 'HARISH B', 'CHEMISTRY', '19/10/1999', 27, 5),

(1215, 'UMESH', 'PHYSICS', '11/05/1998', 22, 16);

1. CREATE TABLE ADMIN (

CODE INT(2) NOT NULL,

GENDER VARCHAR(10) NOT NULL,

DESIGNATION VARCHAR(30) NOT NULL,

FOREIGN KEY(CODE) REFERENCES SCHOOL(CODE)

)

INSERT INTO ADMIN(CODE, GENDER, DESIGNATION) VALUES

(1001, 'MALE', 'VICE PRINCIPAL'),

(1009, 'FEMALE', 'COORDINATOR'),

(1203, 'FEMALE', 'COORDINATOR'),

(1045, 'MALE', 'HOD'),

(1123, 'MALE', 'SENIOR TEACHER'),

(1167, 'MALE', 'SENIOR TEACHER'),

(1215, 'MALE', 'HOD');

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| NO | QUESTION | QUERY | RESULT |
| 1 | Select Designation Count (\*) From Admin Group By Designation Having Count (\*) <2; | SELECT DESIGNATION, COUNT(\*) FROM ADMIN GROUP BY DESIGNATION HAVING COUNT(\*) < 2; |  |
| 2 | SELECT max (EXPERIENCE) FROM SCH¬OOL; | SELECT MAX(EXPERIENCE) FROM SCHOOL; |  |
| 3 | SELECT TEACHER FROM SCHOOL WHERE EXPERIENCE >12 ORDER BY TEACHER; | SELECT TEACHER FROM SCHOOL WHERE EXPERIENCE > 12 ORDER BY TEACHER; |  |
| 4 | SELECT COUNT (\*), GENDER FROM AD¬MIN GROUP BY GENDER; | SELECT COUNT(\*), GENDER FROM ADMIN GROUP BY GENDER; |  |

**Question 103**

1. CREATE TABLE TRANSPORT (

TCODE INT NOT NULL PRIMARY KEY,

TTYPE VARCHAR(20) NOT NULL,

PERKM INT(3) NOT NULL

)

INSERT INTO transport(TCODE, TTYPE, PERKM) VALUES

(103, 'ORDINARY BUS', 90),

(105, 'SUV', 40),

(104, 'CAR', 20),

(101, 'VOLVO BUS', 160),

(102, 'AC DELUXE BUS', 140);

1. CREATE TABLE TRIP (

NO INT NOT NULL PRIMARY KEY,

NAME VARCHAR(30) NOT NULL,

TDATE DATE NOT NULL,

KM INT(4) NOT NULL,

TCODE INT NOT NULL,

NOP INT(3) NOT NULL,

FOREIGN KEY (TCODE) REFERENCES transport(TCODE)

)

INSERT INTO trip(NO, NAME, TDATE, KM, TCODE, NOP) VALUES

(11, 'Tanish Khan', '2015-12-13', 200, 101, 32),

(13, 'Danish Sahai', '2016-06-21', 100, 103, 45),

(15, 'Ram Kumar', '2016-02-23', 350, 102, 42),

(12, 'Fen Shen', '2016-01-13', 90, 102, 40),

(17, 'Aan Kumar', '2015-02-10', 75, 104, 2),

(14, 'Veena', '2016-06-28', 80, 105, 4),

(16, 'Rajpal Kirti', '2016-06-06', 200, 101, 25);

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| NO | QUESTION | QUERY | RESULT |
| 1 | To display NO, NAME, TDATE from the table TRIP in descending order of NO. | SELECT NO, NAME, TDATE FROM TRIP ORDER BY NO DESC; |  |
| 2 | To display the NAME of the drivers from the table TRIP who are traveling by transport vehicle with code 101 or 103. | SELECT NAME FROM TRIP WHERE TCODE = 101 OR TCODE = 103; |  |
| 3 | To display the NO and NAME of those drivers from the table TRIP who travelled between ‘2015-02-10’ and ‘2015-04-01’. | SELECT NO, NAME FROM trip WHERE TDATE BETWEEN '2015-02-10' AND '2015-04-01'; |  |
| 4 | To display all the details from table TRIP in which the distance travelled is more than 100 KM in ascending order of NOP | SELECT \* FROM trip WHERE KM > 100 ORDER BY NOP ASC; |  |
| 5 | SELECT COUNT (\*), TCODE From TRIP  GROUP BY TCODE HAVNING COUnT (\*) > 1; | SELECT COUNT(\*), TCODE FROM TRIP GROUP BY TCODE HAVING COUNT(\*) > 1; |  |
| 6 | SELECT DISTINCT TCODE from TRIP; | SELECT DISTINCT TCODE from TRIP; |  |
| 7 | SELECT A.TCODE, NAME, TTYPE  FROM TRIP A, TRANSPORT B  WHERE A. TCODE = B. TCODE AND KM < 90; | SELECT A.TCODE, A.NAME, B.TTYPE FROM TRIP A, TRANSPORT B WHERE A.TCODE = B.TCODE AND KM < 90; |  |
| 8 | SELECT NAME, KM \*PERKM  FROM TRIP A, TRANSPORT B  WHERE A. TCODE = B. TCODE AND A. TCODE = 105′; | SELECT A.NAME, A.KM \* B.PERKM  FROM TRIP A, TRANSPORT B  WHERE A.TCODE = B.TCODE AND A.TCODE = 105; |  |