

Alok Public School Computer Science Project File

Name of the student
CBSE Roll No
Academic Year
In charge Teacher



Alok Public School Certificate

This is to certify that Master/Miss Studying in Alok Public School of grade XII has completed his/her Computer Science Project on the topic of during the academic year 2023-24					
The Candidate has followed all the CBSE and has completed the projection provided by the guide.	·				
Roll No	Date:				
Signature of I/C Teacher	Signature of Principal				
Signature of Extern	al Examiner				



Alok Public School Computer Science Practical File

Name of the student
CBSE Roll No
Academic Year
In charge Teacher



Alok Public School Certificate

This is to certify that Master/Miss	
Studying in Alok Public School of ghis/her Computer Science Practicathe academic year 2023-24	•
The Candidate has followed all the CBSE and has completed all the provided by the teacher in charge	ractical before the due date
Roll No	Date:
Signature of I/C Teacher	Signature of Principal
Signature of Extern	nal Examiner

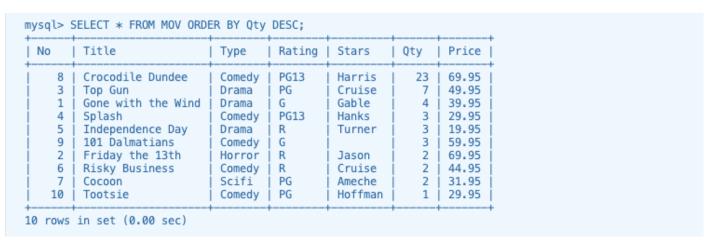
Q: Write SQL commands for the following on the basis of given table MOV:

No	Title	Туре	Rating	Stars	Qty	Price
1	Gone with the Wind	Drama	G	Gable	4	39.95
2	Friday the 13th	Horror	R	Jason	2	69.95
3	Top Gun	Drama	PG	Cruise	7	49.95
4	Splash	Comedy	PG13	Hanks	3	29.95
5	Independence Day	Drama	R	Turner	3	19.95
6	Risky Business	Comedy	R	Cruise	2	44.95
7	Cocoon	Scifi	PG	Ameche	2	31.95
8	Crocodile Dundee	Comedy	PG13	Harris	23	69.95
9	101 Dalmatians	Comedy	G		3	59.95
10	Tootsie	Comedy	PG	Hoffman	1	29.95

(a) Display a list of all movies with Price over 20 and sorted by Price.

4 Splash Comedy PG13 Hanks 3 29.95 10 Tootsie Comedy PG Hoffman 1 29.95 7 Cocoon Scifi PG Ameche 2 31.95 1 Gone with the Wind Drama G Gable 4 39.95 6 Risky Business Comedy R Cruise 2 44.95 3 Top Gun Drama PG Cruise 7 49.95 9 101 Dalmatians Comedy G 3 59.95 2 Friday the 13th Horror R Jason 2 69.95
7 Cocoon
1 Gone with the Wind Drama G Gable 4 39.95 6 Risky Business Comedy R Cruise 2 44.95 3 Top Gun Drama PG Cruise 7 49.95 9 101 Dalmatians Comedy G 3 59.95
6 Risky Business Comedy R Cruise 2 44.95 3 Top Gun Drama PG Cruise 7 49.95 9 101 Dalmatians Comedy G 3 59.95
3 Top Gun Drama PG Cruise 7 49.95 9 101 Dalmatians Comedy G 3 59.95
9 101 Dalmatians Comedy G 3 59.95
-
2 Friday the 12th Herror P Jacon 2 60 05
2 Filday the 15th Horror K Jason 2 69:95
8 Crocodile Dundee Comedy PG13 Harris 23 69.95

(b) Display all the movies sorted by QTY in decreasing order.



(c) Display a report listing a movie number, current value and replacement value for each movie in the above table. Calculate the replacement value for all movies as: QTY Price 1.15.

```
mysql> SELECT
    -> No AS Movie_Number,
-> Qty * Price AS Current_Value,
-> Qty * Price * 1.15 AS Replacement_Value
  Movie_Number | Current_Value | Replacement_Value
                           159.80
                                                183.7700
               1
               2
                           139.90
                                                160.8850
                           349.65
              3
                                                402.0975
               4
                            89.85
                                                103.3275
               5
                             59.85
                                                 68.8275
               6
                             89.90
                                                103.3850
               7
                             63.90
                                                 73.4850
               8
                          1608.85
                                               1850.1775
               9
                           179.85
                                                206.8275
              10
                            29.95
                                                  34.4425
10 rows in set (0.00 sec)
```

Q: Write SQL commands for the following on the basis of given table Teacher:

No.	Name	Age	Department	Date of join	Salary	Sex
1	Jugal	34	Computer	10/01/97	12000	М
2.	Sharmila	31	History	24/03/98	20000	F
3.	Sandeep	32	Maths	12/12/96	30000	М
4.	Sangeeta	35	History	01/07/99	40000	F
5.	Rakesh	42	Maths	05/09/97	25000	М
6.	Shyam	50	History	27/06/98	30000	М
7.	Shiv Om	44	Computer	25/02/97	21000	М
8.	Shalakha	33	Maths	31/07/97	20000	F

(a) To show all information about the teacher of history department

```
mysql> SELECT * FROM Teacher WHERE Department = 'History';
                 | Age | Department | Date_of_join | Salary | Sex
 No
      Name
         Sharmila | 31 | History
                                       1998-03-24
                                                          20000
                    35 | History
50 | History
         Sangeeta |
                                         1999-07-01
                                                          40000
                                     | 1999-07-01
| 1998-06-27
     6 | Shyam
                                                         30000
                                                                  Μ
3 rows in set (0.00 sec)
mysql>
```

(b) To list the names of female teachers who are in Hindi department

```
mysql> SELECT Name FROM Teacher WHERE Department = 'Hindi' AND Sex = 'F';
Empty set (0.00 sec)
mysql> [
```

(c) To list names of all teachers with their date of joining in ascending order.

```
mysql> SELECT Name,Date_of_join FROM Teacher ORDER BY Date_of_join ASC;
 Name
           | Date_of_join
            1996-12-12
  Sandeep
            1997-02-25
  Shiv Om
  Shalakha
             1997-07-31
             1997-09-05
 Rakesh
             1997-10-01
  Jugal
             1998-03-24
1998-06-27
  Sharmila
 Shyam
 Sangeeta | 1999-07-01
8 rows in set (0.00 sec)
mysql>
```

Q: Write the SQL queries for the given two tables job and employee:

JOBID	JOBTITLE	SALARY
101	President	200000
102	Vice President	125000
103	Administration Assistant	80000
104	Accounting Manager	70000
105	Accountant	65000
106	Sales Manager	80000

EMPLOYEEID	EMPLOYEEID NAME		JOBID
E1	SUMIT SINHA	1100000	102
E2	VIJAY SINGH TOMAR	1300000	101
E3	AJAY RAJPAL	1400000	103
E4	MOHIT RAMNANI	1250000	102
E5	SHAILJA SINGH	1450000	103

(i) To display employee ids, names of employees, job ids with corresponding job titles.

```
mysql> SELECT EMPLOYEEID, NAME, EMPLOYEE.JOBID, JOBTITLE
    -> FROM employee
   -> JOIN job ON EMPLOYEE.JOBID = JOB.JOBID;
 EMPLOYEEID | NAME
                                  JOBID | JOBTITLE
                                   101
 E2
              VIJAY SINGH TOMAR |
                                          President
              MOHIT RAMNANI
                                    102
                                          Vice President
              SUMIT SINHA
                                   102 | Vice President
 E1
              SHAILJA SINGH
 E5
                                    103
                                         Administration Assistant
              AJAY RAJPAL
 E3
                                    103 | Administration Assistant
5 rows in set (0.00 sec)
```

(ii) To display names of employees, sales and corresponding job titles who have achieved sales more than 1300000.

(iii) To display names and corresponding job titles of those employees who have 'SINGH' (anywhere) in their names.

(iv) Identify foreign key in the table EMPLOYEE.

The foreign key in the table 'EMPLOYEE' is the column **JOBID** as it references the **JOBID** column in the 'job' table.

(e) Write SQL. command to change the JOBID to 104 of the EMPLOYEE with ID as E4 in the table 'EMPLOYEE'

```
mysql> UPDATE employee
   -> SET JOBID = '104'
   -> WHERE EMPLOYEEID = 'E4';
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql>
```

Q: Consider the following tables Employee and Salary, Write SQL commands for the statements (i) to (iv) and give outputs for SQL queries (v) to (vii)

Table: Employee

Eid	Eid Name		Qualification	Sec
1	Deepali Gupta	101	MCA	F
2	Rajat Tyagi	101	BCA	Μ
3	3 Hari Mohan		B.A.	М
4 Harry		102	M.A.	М
5	Sumit Mittal	103	B.Tech .	М
6	Jyoti	101	M.Tech .	F

Table: Salary

Eid	Basic	D.A.	HRA	Bonus
1	6000	2000	2300	200
2	2000	300	300	30
3	1000	300	300	40
4	1500	390	490	30
5	8000	900	900	80
6	10000	300	490	89

(i) To display the frequency of employees department wise.

(ii) To list the names of those employees only whose name starts with 'H'

(iii) To add a new column in salary table. The column name is Total Sal.

```
mysql> ALTER TABLE Salary
   -> ADD COLUMN TotalSal DECIMAL(10, 2);
Query OK, 0 rows affected (0.01 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql>
```

(iv) To store the corresponding values in the Total Sal column.

```
mysql> UPDATE Salary SET TotalSal = Basic + DA + HRA + Bonus;
Query OK, 6 rows affected (0.00 sec)
Rows matched: 6 Changed: 6 Warnings: 0
mysql>
```

(v) Select max(Basic) from Salary where Bonus > 40:

(vi) Select count(*) from Employee group by Sex;

```
mysql> Select count(*) from Employee group by Sec;

| count(*) |
| 2 |
| 4 |
| 2 rows in set (0.00 sec)

mysql>
```

(vii) Select Distinct Depid from Employee: