

Database Systems LAB – BSDSF23

(Morning and Afternoon)

Lab 01 – 07-01-2025

Copy the portable DB Browser for SQLite from server (\\printsrv) and start it.

Create a database named La11.db

1. Create the following table using create table SQL statement, later using several insert SQL statements add data in the table.

salgrade Table

grade	losal	hisal
1	7000.00	12000.00
2	12001.00	14000.00
4	20001.00	30000.00
5	30001.00	100000.00
3	100001.00	200000.00

2. Create the following table using create table SQL statement, later using several insert SQL statements add data in the table. Do not add any data in the comm column. At first, add row of Badshah as its mgr is null. Later using update SQL statement set the comm column data even it is ZERO (which is not null).

emp Table

empno	ename	job	mgr	hiredate	sal	comm	deptno
7369	WAHID	CLERK	7902	1993-06-13	8000.00		20
7499	AHMAD	SALESMAN	7698	1998-08-15	16000.00	3000.00	30
7521	WAJID	SALESMAN	7698	1996-03-26	12500.00	5000.00	30
7566	JAMEEL	MANAGER	7839	1995-10-31	29750.00		20
7698	BABAR	MANAGER	7839	1992-06-11	28500.00		30
7782	CRISTOFAR	MANAGER	7839	1993-05-14	24500.00		10
7788	SMEEA	ANALYST	7566	1996-03-05	30000.00		20
7839	BADSHAH	CHAIRPERSON		1990-06-09	50000.00		10
7844	TANVEER	SALESMAN	7698	1995-06-04	15000.00	0.00	30
7876	ADNAN	CLERK	7788	1999-06-04	11000.00		20
7900	JAFFER	CLERK	7698	2000-06-23	9500.00		30
7934	MEENA	CLERK	7782	2000-01-21	13000.00		10
7902	FOWAD	ANALYST	7566	1997-12-05	30000.00		20
7654	MAJID	SALESMAN	7698	1998-12-05	12500.00	14000.00	30

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3. Create the following table using create table SQL statement, later using several insert SQL statements add data in the table.

dept Table

deptno	dname	location
10	Accounting	Sargodha
20	Research	Karachi
30	Sales	Multan
40	Operations	Vehari

4. Write SQL statements for the following tasks.

- Display grades data in order of grade.
- Display ename, sal, sal+comm for all employee getting commision, i.e., comm > 0.
- Display ename, empno, hiredate, sal for all employee working at Sargodha
- Update the manager of employees currently working under Babar to Chairman and using appropriate ***select*** statement verify the update.
- Update sal of employees on MANAGER job by an increase of 12% and later using appropriate ***select*** statement verify the update.
- Delete the employee with job CLERK and in dept with number 20 getting more pay than others of similar status and using appropriate ***select*** statement verify the delete.
- Display all the employees working in grade 3 or 4.

Examples

Create table dept

```
(  
    Deptno integer,  
    Dname text,  
    Location text  
)
```

Insert into salgrade (losal, highsal, grade) values (7000.0, 12000.0, 1)

Select ename, empno, job, sal, comm, sal+comm as income from emp where deptno = 30