TRISHIT GUPTA

20BIT0374

Q1.Show Create,update,delete commands in mysql

CREATE DATABASE WEEK2; USE WEEK2; CREATE TABLE employee (id INT PRIMARY KEY, name VARCHAR(20) NOT NULL, age INT, DOJ DATE, address VARCHAR(30), salary INT); DESC employee;

UPDATE employee SET age = 30, salary = 40000 WHERE id = 1; SELECT * FROM employee;

id	name	age	DOJ	address	salary
1	Prabhat	30	2019-07-12	Delhi	40000
2	Rimpa	27	2021-01-25	Mumbai	20000
3	Saikat	31	2020-09-24	Kolkata	30000
4	Sagar	29	2020-05-08	Delhi	34000
5	Naina	30	2019-02-07	Delhi	29000
6	Rahul	28	2020-06-04	Mumbai	27000
NULL	NULL	NULL	NULL	NULL	NULL

Q2.Create tables and perform joins in mysql

CREATE TABLE BUS (routeno INT PRIMARY KEY, source VARCHAR(30), destination VARCHAR(30));

INSERT INTO BUS VALUES (101, 'Bangalore', 'Chennai'), (102, 'Vellore', 'Bangalore'), (103, 'Lucknow', 'Delhi'), (104, 'Dehradun', 'Delhi'), (105, 'Shimla', 'Delhi'), (106, 'Mussoorie', 'Dehradun'), (107, 'Bangalore', 'Goa'), (108, 'Delhi', 'Goa'), (109, 'Kolkata', 'Delhi'); SELECT * FROM BUS;

	101	Bangalore	Chennai	
	102	Vellore	Bangalore	
	103	Lucknow	Delhi	
	104	Dehradun	Delhi	
	105	Shimla	Delhi	
	106	Mussoorie	Dehradun	
	107	Bangalore	Goa	
	108	Delhi	Goa	

CREATE TABLE PASSENGER (pid INT PRIMARY KEY, pname VARCHAR(20), birth_year YEAR, gender VARCHAR(10), CHECK(birth_year > 2006));

CREATE TABLE BOOK_TICKET

(

pid INT,

routeno INT,

journey_date DATE,

seat_no INT,

CONSTRAINT pk_bookticket

PRIMARY KEY (routeno, journey_date),

CONSTRAINT fk_bookticket1

FOREIGN KEY (pid) REFERENCES PASSENGER(pid),

CONSTRAINT fk_bookticket2

FOREIGN KEY (routeno) REFERENCES BUS(routeno)

);

INSERT INTO BOOK_TICKET

VALUES

(1, 102, '2022-12-25', 10),

(16, 101, '2014-11-03', 1),

(6, 109, '2022-12-24', 12),

(7, 108, '2022-12-27', 4),

(9, 104, '2022-12-25', 2),

(11, 105, '2022-12-25', 1),

(14, 106, '2022-12-25', 20);

SELECT * FROM BOOK_TICKET;

pid	routeno	journey_date	seat_no	
16	101	2014-11-03	1	
1	102	2022-12-25	10	
9	104	2022-12-25	2	
11	105	2022-12-25	1	
14	106	2022-12-25	20	
7	108	2022-12-27	4	
6	109	2022-12-24	12	

#INNER JOIN

SELECT PASSENGER.pname

FROM ((BOOK_TICKET

INNER JOIN PASSENGER ON PASSENGER.pid = BOOK_TICKET.pid

INNER JOIN BUS ON BUS.routeno = BOOK_TICKET.routeno))

WHERE BUS.source='Bangalore' AND BUS.destination='Chennai' AND

BOOK_TICKET.journey_date= '2014-11-03';

#LEFT JOIN

SELECT PASSENGER.pname

FROM ((BOOK_TICKET

LEFT JOIN PASSENGER ON PASSENGER.pid = BOOK_TICKET.pid

LEFT JOIN BUS ON BUS.routeno = BOOK_TICKET.routeno))

WHERE BUS.source='Shimla' AND BUS.destination='Delhi' AND

BOOK_TICKET.journey_date= '2022-12-25';

#RIGHT JOIN

SELECT PASSENGER.pname

FROM ((BOOK_TICKET

RIGHT JOIN PASSENGER ON PASSENGER.pid = BOOK_TICKET.pid

RIGHT JOIN BUS ON BUS.routeno = BOOK_TICKET.routeno))

WHERE BUS.source='Mussoorie' AND BUS.destination='Dehradun' AND

BOOK_TICKET.journey_date= '2022-12-25';

Q3.Show create,update and delete commands in mongo.

```
db.employee.insertOne({
ne:"Prabhat",
:25,
ress:"Delhi",
ary:25000
```

DELETE

```
[week2> db.employee.deleteOne({salary:40000})
{ acknowledged: true, deletedCount: 1 }
```