

WEEK 2 ASSIGNMENT

Q1.Show Create,update,delete commands in mysql

Q2.Create tables and perform joins in mysql

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

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;
```

	Field	Type	Null	Key	Default	Extra	
▶	id	int	NO	PRI	NULL		
	name	varchar(20)	NO		NULL		
	age	int	YES		NULL		
	DOJ	date	YES		NULL		
	address	varchar(30)	YES		NULL		
	salary	int	YES		NULL		

```
INSERT INTO employee  
VALUES  
(1, 'Prabhat', 25, '2019-07-12', 'Delhi', 25000),  
(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);  
SELECT * FROM employee;
```

	id	name	age	DOJ	address	salary	
▶	1	Prabhat	25	2019-07-12	Delhi	25000	
	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	

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	

```
DELETE FROM employee
WHERE id = 1;
SELECT * FROM employee;
```

	id	name	age	DOJ	address	salary	
▶	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;
```

	routeno	source	destination	
▶	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	

BUS 7

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

```
INSERT INTO PASSENGER  
VALUES
```

```
(1, 'Kislay', '2008', 'Male'),  
(2, 'Machhan', '2010', 'Female'),  
(3, 'Honey', '2012', 'Female'),  
(4, 'Bedi', '2018', 'Male'),  
(5, 'Steve', '2018', 'Male'),  
(6, 'Hitesh', '2010', 'Male'),  
(7, 'Bhavyadeep', '2011', 'Male'),  
(8, 'Karan', '2011', 'Male'),  
(9, 'Adil', '2008', 'Male'),  
(10, 'Pranav', '2012', 'Male'),  
(11, 'Priya', '2011', 'Female'),  
(12, 'Riya', '2016', 'Female'),  
(13, 'Hemang', '2009', 'Male'),  
(14, 'Raiyan', '2009', 'Male'),  
(15, 'Piyush', '2010', 'Male'),  
(16, 'Sohan', '2021', 'Male');
```

```
SELECT * FROM PASSENGER;
```

	pid	pname	birth_year	gender	
▶	1	Kislay	2008	Male	
	2	Machhan	2010	Female	
	3	Honey	2012	Female	
	4	Bedi	2018	Male	
	5	Steve	2018	Male	
	6	Hitesh	2010	Male	
	7	Bhavvadeep	2011	Male	

```

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';
```

	pname	
▶	Sohan	

#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';
```


	pname	
▶	Priya	

#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';
```

	pname	
▶	Raiyan	

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

CREATE

```
[test> use week2
switched to db week2
[week2> db.employee.insertOne({
[... name:"Prabhat",
[... age:25,
[... address:"Delhi",
[... salary:25000
[... }])
{
  acknowledged: true,
  insertedId: ObjectId("6474af7092ffa1fbe2388272")
}
```

UPDATE

```
[week2> db.employee.updateOne(
[... {name:"Prabhat"},
[... {$set:{salary:40000}}
[... )
{
  acknowledged: true,
  insertedId: null,
  matchedCount: 1,
  modifiedCount: 1,
  upsertedCount: 0
}
week2>
```

DELETE

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