

```

1.)create database hr_schema;
2.)use hr_schema;
3.)create table departments(department_id int primary key,department_name
varchar(20),manager_id int,location_id varchar(20));
mysql>desc departments;

```

Field	Type	Null	Key	Default	Extra
department_id	int	NO	PRI	NULL	
department_name	varchar(20)	YES		NULL	
manager_id	int	YES		NULL	
location_id	int	YES		NULL	

```

4.) alter table departments add foreign key(location_id) references locations(location_id);
mysql>desc departments;

```

Field	Type	Null	Key	Default	Extra
department_id	int	NO	PRI	NULL	
department_name	varchar(20)	YES		NULL	
manager_id	int	YES		NULL	
location_id	int	YES	MUL	NULL	

```

5.)create table locations(location_id int primary key,
street_address varchar(20),postal_code int(20),city varchar(20),state_province
varchar(20),country_id int,foreign key(country_id)references countries(country_id));
mysql>desc locations;

```

Field	Type	Null	Key	Default	Extra
location_id	int	NO	PRI	NULL	
street_address	varchar(20)	YES		NULL	
postal_code	int	YES		NULL	
city	varchar(20)	YES		NULL	
state_province	varchar(20)	YES		NULL	
country_id	int	YES	MUL	NULL	

```

6.)create table countries(country_id int primary key,country_name varchar(20),region_id int );
7.)alter table countries add foreign key (region_id) references regions(region_id);

```

```
mysql>desc countries;
```

Field	Type	Null	Key	Default	Extra
country_id	int	NO	PRI	NULL	
country_name	varchar(20)	YES		NULL	
region_id	int	YES	MUL	NULL	

```

8.)CREATE TABLE employees (
  employee_id INT PRIMARY KEY,
  first_name VARCHAR(255),
  last_name VARCHAR(255),
  email VARCHAR(255),
  phone_number VARCHAR(255),
  hire_date DATE,
  job_id INT,
  salary FLOAT,
  commission_pct FLOAT,
  manager_id INT,
  department_id INT,
  FOREIGN KEY (job_id)
    REFERENCES jobs(job_id),
  FOREIGN KEY (manager_id)
    REFERENCES employees(employee_id),
  FOREIGN KEY (department_id)
    REFERENCES departments(department_id)
);
mysql>desc employees;

```

Field	Type	Null	Key	Default	Extra
employee_id	int	NO	PRI	NULL	
first_name	varchar(255)	YES		NULL	
last_name	varchar(255)	YES		NULL	
email	varchar(255)	YES		NULL	
phone_number	varchar(255)	YES		NULL	
hire_date	date	YES		NULL	
job_id	int	YES	MUL	NULL	
salary	float	YES		NULL	
commission_pct	float	YES		NULL	
manager_id	int	YES	MUL	NULL	
department_id	int	YES	MUL	NULL	

```

9.)CREATE TABLE job_history (
  employee_id INT,
  start_date DATE,
  end_date DATE,
  job_id INT,
  department_id INT,
  FOREIGN KEY (employee_id)
    REFERENCES employees(employee_id),
  FOREIGN KEY (job_id)
    REFERENCES jobs(job_id),
  FOREIGN KEY (department_id)
    REFERENCES departments(department_id));

```

```
mysql> desc job_history;
```

Field	Type	Null	Key	Default	Extra
employee_id	int	YES	MUL	NULL	
start_date	date	YES		NULL	
end_date	date	YES		NULL	
job_id	int	YES	MUL	NULL	
department_id	int	YES	MUL	NULL	

```

10.)create table JOBS (job_id int primary key,job_title varchar(20),min_salary double, max_salary double);

```

```
mysql>desc jobs;
```

Field	Type	Null	Key	Default	Extra
job_id	int	NO	PRI	NULL	
job_title	varchar(20)	YES		NULL	
min_salary	double	YES		NULL	
max_salary	double	YES		NULL	

```

11.)create table regions(region_id int primary key,region_name varchar(20));

```

```
mysql> desc regions;
```

Field	Type	Null	Key	Default	Extra
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Field	Type	Null	Key	Default	Extra
region_id	int	NO	PRI	NULL	
region_name	varchar(20)	YES		NULL	

12.) mysql> alter table job\_history add primary key(start\_date);  
Query OK, 0 rows affected (0.08 sec)  
Records: 0 Duplicates: 0 Warnings: 0

13.)mysql> alter table job\_history add foreign key(job\_id) references jobs(job\_id);  
Query OK, 0 rows affected (0.05 sec)  
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc job\_history;

Field	Type	Null	Key	Default	Extra
employee_id	int	YES	MUL	NULL	
start_date	date	NO	PRI	NULL	
end_date	date	YES		NULL	
job_id	int	YES	MUL	NULL	
department_id	int	YES	MUL	NULL	

14.)mysql> show tables;

Tables_in_hr_schema
countries
departments
employees
job_history
jobs
locations
regions

7 rows in set (0.00 sec)