

Assignment hr schema

1. create database hrdb;
2. use hrdb;
Database changed

3. Regions table:

```
create table regions
(
  region_id int primary key,
  region_name varchar(30)
);
```

Output:- desc regions;

```
mysql>
mysql> desc regions;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| region_id  | int           | NO   | PRI | NULL    |       |
| region_name | varchar(30)   | YES  |     | NULL    |       |
+-----+-----+-----+-----+-----+-----+
2 rows in set (0.01 sec)
```

4. countries table:

```
create table countries
(
  country_id int primary key,
  country_name varchar(30),
  region_id int
);
```

```
alter table countries add constraint regions_fk foreign key(region_id) references
regions(region_id);
```

Output:- desc countries;

```
mysql> create table countries
-> (
-> country_id int primary key,
-> country_name varchar(30),
-> region_id int
-> );
Query OK, 0 rows affected (0.05 sec)

mysql> alter table countries add constraint regions_fk foreign key(region_id) references regions(region_id);
Query OK, 0 rows affected (0.13 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc countries;
+-----+-----+-----+-----+-----+-----+
| Field      | Type          | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| country_id | int           | NO   | PRI | NULL    |       |
| country_name | varchar(30)   | YES  |     | NULL    |       |
| region_id  | int           | YES  | MUL | NULL    |       |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.01 sec)

mysql>
```

5) locations table:

```
create table locations
(
location_id int primary key,
street_address varchar(25),
postal_code int,
city varchar(20),
state_province varchar(15),
country_id int
);
alter table locations add constraint countries_fk foreign key(country_id) references
countries(country_id) ;
```

Output:- desc locations;

```
mysql> create table locations
-> (
-> location_id int primary key,
-> street_address varchar(25),
-> postal_code int,
-> city varchar(20),
-> state_province varchar(15),
-> country_id int
-> );
Query OK, 0 rows affected (0.04 sec)

mysql> alter table locations add constraint countries_fk foreign key(country_id) references countries(country_id);
Query OK, 0 rows affected (0.11 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc locations;
```

Field	Type	Null	Key	Default	Extra
location_id	int	NO	PRI	NULL	
street_address	varchar(25)	YES		NULL	
postal_code	int	YES		NULL	
city	varchar(20)	YES		NULL	
state_province	varchar(15)	YES		NULL	
country_id	int	YES	MUL	NULL	

6 rows in set (0.01 sec)

6) departments table:-

```
create table departments
(
dept_id int primary key,
dept_name varchar(30),
manager_id int,
location_id int
);

alter table departments add constraint locations_fk foreign key(location_id) references
locations(location_id);
```

Output:- desc departments;

```
mysql> create table departments
-> (
-> dept_id int primary key,
-> dept_name varchar(30),
-> manage_id int,
-> location_id int
-> );
Query OK, 0 rows affected (0.04 sec)

mysql> alter table departments add constraint locations_fk foreign key(location_id) references locations(location_id);
Query OK, 0 rows affected (0.10 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> desc departments;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| dept_id | int | NO | PRI | NULL | |
| dept_name | varchar(30) | YES | | NULL | |
| manage_id | int | YES | | NULL | |
| location_id | int | YES | MUL | NULL | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

7) jobs table:

```
create table jobs
(
job_id int primary key,
job_title varchar(20),
min_salary double,
max_salary double
);
```

Output:- desc jobs;

```
mysql> create table jobs
-> (
-> job_id int primary key,
-> job_title varchar(20),
-> min_salary double,
-> max_salary double
-> );
Query OK, 0 rows affected (0.04 sec)

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 | |
+-----+-----+-----+-----+-----+-----+
4 rows in set (0.01 sec)

mysql>
```

8) employees table :

```
create table employees
(
emp_id int primary key,
first_name varchar(25),
last_name varchar(25),
email varchar(30),
phone_no varchar(10),
hire_date date,
job_id int,
salary double,
commission_pct double,
```

```
manager_id int ,
dept_id int
);
```

```
alter table employees add constraint jobs_fk foreign key(job_id) references
jobs(job_id);
```

```
alter table employees add constraint departments_fk foreign key(dept_id) references
departments(dept_id);
```

Output:-

```
mysql> create table employees
-> (
-> employee_id int primary key,
-> first_name varchar(25),
-> last_name varchar(25),
-> email varchar(30),
-> phone_number varchar(10),
-> hire_date date,
-> job_id int,
-> salary double,
-> commission_pct double,
-> manager_id int,
-> department_id int
-> );
Query OK, 0 rows affected (0.07 sec)

mysql> alter table employees add constraint job_fk foreign key(job_id)references jobs(job_id);
Query OK, 0 rows affected (0.08 sec)
Records: 0 Duplicates: 0 Warnings: 0

mysql> alter table employees add constraint departments_fk foreign key(department_id) references departments(dept_id);
Query OK, 0 rows affected (0.15 sec)
Records: 0 Duplicates: 0 Warnings: 0
```

9) job_history table:

```
create table job_history
(
emp_id int,
start_date date,
end_date date,
job_id int ,
dept_id int,
primary key(emp_id, start_date)
);
```

```
alter table job_history add constraint jobs_fk1 foreign key(job_id) references
jobs(job_id);
```

```
alter table job_history add constraint departments_fk1 foreign key(dept_id) references
departments(dept_id);
```

Output:- desc job_history;

```
mysql> create table job_history
-> (
-> emp_id int,
-> start_date date,
-> end_date date,
-> job_id int,
-> dept_id int,
-> primary key(emp_id, start_date)
-> );
```

Query OK, 0 rows affected (0.04 sec)

Computer not connected

```
mysql> alter table job_history add constraint jobs_fk1 foreign key(job_id) references jobs(job_id);
```

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> alter table job_history add constraint departments_fk1 foreign key(dept_id) references departments(dept_id);
```

Query OK, 0 rows affected (0.09 sec)

Records: 0 Duplicates: 0 Warnings: 0

```
mysql> desc job_history;
```

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

5 rows in set (0.00 sec)