```sql
-- Create 'customers' table
CREATE TABLE customers (
    customer_id INT PRIMARY KEY,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    email VARCHAR(100),
    address VARCHAR(100)
);

-- Create 'employees' table
CREATE TABLE employees (
    employee_id INT PRIMARY KEY,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    age VARCHAR(10),  -- This will be modified later to INT
    salary DECIMAL(10, 2),
    department_id INT
);

-- Create 'contacts' table
CREATE TABLE contacts (
    contact_id INT PRIMARY KEY,
    name VARCHAR(50),
    address VARCHAR(100)  -- This will be renamed later to 'home_address'
);

-- Create 'departments' table
CREATE TABLE departments (
    department_id INT PRIMARY KEY,
    department_name VARCHAR(50)
);
```

```
-- Create 'students' table
CREATE TABLE students (
    student_id INT PRIMARY KEY,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    email VARCHAR(100)
);

-- Create 'users' table
CREATE TABLE users (
    user_id INT PRIMARY KEY,
    username VARCHAR(50),
    email VARCHAR(100)  -- This will have a unique constraint added later
);

-- Create 'inventory' table
CREATE TABLE inventory (
    product_id INT PRIMARY KEY,
    product_name VARCHAR(50),
    quantity INT  -- Default value will be set later
);

-- Create 'products' table
CREATE TABLE products (
    product_id INT PRIMARY KEY AUTO_INCREMENT,
    product_name VARCHAR(50),
    price DECIMAL(10, 2)
);

-- Create 'locations' table
```

```
CREATE TABLE locations (
    location_id INT,
    street_address VARCHAR(100),
    postal_code VARCHAR(20),
    city VARCHAR(50),
    state_province VARCHAR(50),  -- This will be renamed to 'state' later
    country_id VARCHAR(2),
    PRIMARY KEY (location_id)
);

-- Create 'job_history' table
CREATE TABLE job_history (
    employee_id INT,
    job_id VARCHAR(10),
    department_id INT,
    start_date DATE,
    end_date DATE
);

-- Create 'jobs' table
CREATE TABLE jobs (
    job_id VARCHAR(10) PRIMARY KEY,
    job_title VARCHAR(50),
    min_salary DECIMAL(10, 2),
    max_salary DECIMAL(10, 2)
);
```

1. Write a query to add a new column named 'phone_number' of type VARCHAR(20) to a table named 'customers'.

```
92 •  desc customers;
93    -- 1. Write a query to add a new column named 'phone_number' of type VARCHAR(20) to a table named 'customers'.
94 •  alter table customers add column phone_number int(10);
95
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| customer_id | int | NO | PRI | NULL | |
| first_name | varchar(50) | YES | | NULL | |
| last_name | varchar(50) | YES | | NULL | |
| email | varchar(100) | YES | | NULL | |
| address | varchar(100) | YES | | NULL | |
| phone_number | int | YES | | NULL | |

2. Write a query to modify the data type of the column 'age' in a table named 'employees' to INT.

```
95
96    -- 2. Write a query to modify the data type of the column 'age' in a table named 'employees' to INT.
97 •  desc employees;
98 •  alter table employees modify column age int;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| employee_id | int | NO | PRI | NULL | |
| first_name | varchar(50) | YES | | NULL | |
| last_name | varchar(50) | YES | | NULL | |
| age | int | YES | | NULL | |
| salary | decimal(10,2) | YES | | NULL | |
| department_id | int | YES | | NULL | |

3. Write a query to rename the column 'address' to 'home_address' in a table named 'contacts'.

```
99
100   -- 3. Write a query to rename the column 'address' to 'home_address' in a table named 'contacts'.
101 •  desc contacts;
102 •  alter table contacts rename column address to home_address;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| contact_id | int | NO | PRI | NULL | |
| name | varchar(50) | YES | | NULL | |
| home_address | varchar(100) | YES | | NULL | |

4. Write a query to add a foreign key constraint named 'fk_department' to a column named 'department_id' in a table named 'employees', referencing the 'department_id' column in a table named 'departments'.

```
104    -- 4. Write a query to add a foreign key constraint named 'fk_department' to a column named 'department_id' in a table named 'employees',
105    -- referencing the 'department_id' column in a table named 'departments'.
106 •  desc employees;
107 •  alter table employees add constraint fk_department foreign key(department_id) references departments(department_id);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| employee_id | int | NO | PRI | NULL | |
| first_name | varchar(50) | YES | | NULL | |
| last_name | varchar(50) | YES | | NULL | |
| age | int | YES | | NULL | |
| salary | decimal(10,2) | YES | | NULL | |
| department_id | int | YES | MUL | NULL | |

5. Write a query to drop the primary key constraint from a table named 'students'.

```
109    -- 5. Write a query to drop the primary key constraint from a table named 'students'.
110 •  desc students;
111 •  alter table students drop primary key;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| student_id | int | NO | | NULL | |
| first_name | varchar(50) | YES | | NULL | |
| last_name | varchar(50) | YES | | NULL | |
| email | varchar(100) | YES | | NULL | |

6. Write a query to add a unique constraint named 'uc_email' to a column named 'email' in a table named 'users'.

```
113    -- 6. Write a query to add a unique constraint named 'uc_email' to a column named 'email' in a table named 'users'.
114 •  desc users;
115 •  alter table users add constraint uc_email unique(email);
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| user_id | int | NO | PRI | NULL | |
| username | varchar(50) | YES | | NULL | |

7. Write a query to add a default value of '0' to a column named 'quantity' in a table named 'inventory'.

```
117     -- 7. Write a query to add a default value of '0' to a column named 'qu
118 •   desc inventory;
119 •   alter table inventory add quality int default 0;
120
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| product_id | int | NO | PRI | NULL | |
| product_name | varchar(50) | YES | | NULL | |
| quantity | int | YES | | NULL | |
| quality | int | YES | | 0 | |

8. Write a query to modify the position of the column 'last_name' to be the first column in a table named 'customers'.

```
121     -- 8. Write a query to modify the position of the column 'last_name'
122 •   desc customers;
123 •   alter table customers modify column last_name varchar(50) first;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| last_name | varchar(50) | YES | | NULL | |
| customer_id | int | NO | PRI | NULL | |
| first_name | varchar(50) | YES | | NULL | |
| email | varchar(100) | YES | | NULL | |

9. Write a query to change the auto-increment value of a column named 'product_id' to start from 1001 in a table named 'products'.

```
125     -- 9. Write a query to change the auto-increment value of a column named 'product_id'
126 •  desc products;
127 •  alter table products auto_increment=1001;
128 •  insert into products values(product_id,'A',23);
129 •  insert into products values(product_id,'B',24);
130 •  select * from products;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

| product_id | product_name | price |
|---|---|---|
| 1001 | A | 23.00 |
| 1002 | B | 24.00 |
| NULL | NULL | NULL |

10. Write a query to add a check constraint named 'chk_salary' to a column named 'salary' in a table named 'employees', ensuring that the salary is greater than or equal to 2000.

```
132     -- ensuring that the salary is greater than or equal to 2000.
133 •  alter table employees add constraint chk_salary check(salary>=2000);
134 •  desc employees;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| employee_id | int | NO | PRI | NULL | |
| first_name | varchar(50) | YES | | NULL | |
| last_name | varchar(50) | YES | | NULL | |
| age | int | YES | | NULL | |
| salary | decimal(10,2) | YES | | NULL | |
| department_id | int | YES | MUL | NULL | |

Based on hr database

1. Write a SQL statement to rename the table countries to country_new.

```
445     -- 1.   Write a SQL statement to rename the table countries to country_new.
446 •   desc countries;
447 •   alter table countries rename to country_new;
448 •   select * from country_new;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

| COUNTRY_ID | COUNTRY_NAME | REGION_ID |
|---|---|---|
| AR | Argentina | 2 |
| AU | Australia | 3 |
| BE | Belgium | 1 |
| BR | Brazil | 2 |
| CA | Canada | 2 |
| CH | Switzerland | 1 |
| CN | China | 3 |
| DE | Germany | 1 |
| DK | Denmark | 1 |
| EG | Egypt | 4 |
| FR | France | 1 |
| HK | HongKong | 3 |
| IL | Israel | 4 |
| IN | India | 3 |
| IT | Italy | 1 |
| JP | Japan | 3 |

country_new 3

Output

2. Write a SQL statement to add a column region_id to the table locations.

```
449     -- 2. Write a SQL statement to add a column region_id to
450 •   desc locations;
451 •   alter table locations add column region_id int
452
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| LOCATION_ID | decimal(4,0) | NO | PRI | 0 | |
| STREET_ADDRESS | varchar(40) | YES | | NULL | |
| POSTAL_CODE | varchar(12) | YES | | NULL | |
| CITY | varchar(30) | NO | MUL | NULL | |
| STATE_PROVINCE | varchar(25) | YES | MUL | NULL | |
| COUNTRY_ID | varchar(2) | YES | MUL | NULL | |
| region_id | int | YES | | NULL | |

3. Write a SQL statement to add a column ID as the first column of the table locations.

```
456 •   alter table locations add Id int first;
457 •   desc locations;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| Id | int | YES | | NULL | |
| LOCATION_ID | decimal(4,0) | NO | PRI | 0 | |
| STREET_ADDRESS | varchar(40) | YES | | NULL | |
| POSTAL_CODE | varchar(12) | YES | | NULL | |
| CITY | varchar(30) | NO | MUL | NULL | |
| STATE_PROVINCE | varchar(25) | YES | MUL | NULL | |
| COUNTRY_ID | varchar(2) | YES | MUL | NULL | |
| region_id | int | YES | | NULL | |

4. Write a SQL statement to add a column region_id after state_province to the table locations.

```
-- 4. Write a SQL statement to add a column region_id after state_province to the table locations
desc locations;
alter table locations add region_id int after state_province ;
select * from locations;
```

5. Write a SQL statement to change the data type of the column country_id to integer in the table locations. CAN'T MODIFY BECAUSE country_id ALREADY COINTAINING VARCHAR VALUES

```
461     -- 5. Write a SQL statement to change the data type of the column country_id to integer in the
462 •   desc locations;
463 •   alter table locations modify column country_id int;
464
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

| Id | LOCATION_ID | STREET_ADDRESS | POSTAL_CODE | CITY | STATE_PROVINCE | COUNTRY_ID | region_id |
|---|---|---|---|---|---|---|---|
| NULL | 1000 | 1297 Via Cola di Rie | 989 | Roma | | IT | NULL |
| NULL | 1100 | 93091 Calle della Testa | 10934 | Venice | | IT | NULL |
| NULL | 1200 | 2017 Shinjuku-ku | 1689 | Tokyo | Tokyo Prefecture | JP | NULL |
| NULL | 1300 | 9450 Kamiya-cho | 6823 | Hiroshima | | JP | NULL |
| NULL | 1400 | 2014 Jabberwocky Rd | 26192 | Southlake | Texas | US | NULL |
| NULL | 1500 | 2011 Interiors Blvd | 99236 | South San Francisco | California | US | NULL |
| NULL | 1600 | 2007 Zagora St | 50090 | South Brunswick | New Jersey | US | NULL |
| NULL | 1700 | 2004 Charade Rd | 98199 | Seattle | Washington | US | NULL |
| NULL | 1800 | 147 Spadina Ave | M5V 2L7 | Toronto | Ontario | CA | NULL |
| NULL | 1900 | 6092 Boxwood St | YSW 9T2 | Whitehorse | Yukon | CA | NULL |
| NULL | 2000 | 40-5-12 Laogianggen | 190518 | Beijing | | CN | NULL |
| NULL | 2100 | 1298 Vileparle (E) | 490231 | Bombay | Maharashtra | IN | NULL |
| NULL | 2200 | 12-98 Victoria Street | 2901 | Sydney | New South Wales | AU | NULL |
| NULL | 2300 | 198 Clementi North | 540198 | Singapore | | SG | NULL |
| NULL | 2400 | 8204 Arthur St | | London | | UK | NULL |
| NULL | 2500 | 'Magdalen Centre | The Oxford | OX9 9ZB | Oxford | Ox | NULL |

6. Write a SQL statement to drop the column city from the table locations.

```
465     -- 6. Write a SQL statement to drop the column city from the
466 •   alter table locations drop city;
467 •   desc locations;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| Id | int | YES | | NULL | |
| LOCATION_ID | decimal(4,0) | NO | PRI | 0 | |
| STREET_ADDRESS | varchar(40) | YES | | NULL | |
| POSTAL_CODE | varchar(12) | YES | | NULL | |
| STATE_PROVINCE | varchar(25) | YES | MUL | NULL | |
| COUNTRY_ID | varchar(2) | YES | MUL | NULL | |
| region_id | int | YES | | NULL | |

7. Write a SQL statement to change the name of the column state_province to state, keeping the data type and size same.

```
468     -- 7. Write a SQL statement to change the name of the column state_prc
469 •   alter table locations rename column state_province to state;
470 •   desc locations;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| Id | int | YES | | NULL | |
| LOCATION_ID | decimal(4,0) | NO | PRI | 0 | |
| STREET_ADDRESS | varchar(40) | YES | | NULL | |
| POSTAL_CODE | varchar(12) | YES | | NULL | |
| state | varchar(25) | YES | MUL | NULL | |
| COUNTRY_ID | varchar(2) | YES | MUL | NULL | |
| region_id | int | YES | | NULL | |

8. Write a SQL statement to add a primary key for the columns location_id in the locations table.

```
471     -- 8. Write a SQL statement to add a primary key for the columns location_i
472 •   alter table locations add location_id int primary key;
473
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| Id | int | YES | | NULL | |
| LOCATION_ID | decimal(4,0) | NO | PRI | 0 | |
| STREET_ADDRESS | varchar(40) | YES | | NULL | |
| POSTAL_CODE | varchar(12) | YES | | NULL | |
| state | varchar(25) | YES | MUL | NULL | |
| COUNTRY_ID | varchar(2) | YES | MUL | NULL | |
| region_id | int | YES | | NULL | |

9. Write a SQL statement to add a primary key for a combination of columns location_id and country_id.

```
476 •   alter table locations add primary key(location_id,country_id);
477 •   desc locations;
478 •   select * from locations;
479     -- 10. Write a SQL statement to drop the existing primary fro
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| Id | int | YES | | NULL | |
| LOCATION_ID | decimal(4,0) | NO | PRI | 0 | |
| STREET_ADDRESS | varchar(40) | YES | | NULL | |
| POSTAL_CODE | varchar(12) | YES | | NULL | |
| state | varchar(25) | YES | MUL | NULL | |
| COUNTRY_ID | varchar(2) | YES | MUL | NULL | |
| region_id | int | YES | | NULL | |

10. Write a SQL statement to drop the existing primary from the table locations on a combination of columns location_id and country_id.

```
480 •    alter table locations drop primary key;
481      -- if want to drop one only then
482 •    alter table locations drop primary key, add primary key(country_id);
483
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| Id | int | YES | | NULL | |
| LOCATION_ID | decimal(4,0) | NO | | 0 | |
| STREET_ADDRESS | varchar(40) | YES | | NULL | |
| POSTAL_CODE | varchar(12) | YES | | NULL | |
| state | varchar(25) | YES | MUL | NULL | |
| COUNTRY_ID | varchar(2) | YES | MUL | NULL | |
| region_id | int | YES | | NULL | |

11. Write a SQL statement to add a foreign key on the job_id column of the job_history table referencing the primary key job_id of jobs table.

```
-- 11. Write a SQL statement to add a foreign key on the job_id column of the job_history table referencing the p
desc job_history;
desc jobs;
alter table job_history add foreign key(job_id) references jobs(job_id);
```

12. Write a SQL statement to add a foreign key constraint named fk_job_id on the job_id column of the job_history table referencing the primary key job_id of the jobs table.

```
-- 12. Write a SQL statement to add a foreign key constraint named fk_job_id on the job_id colu
--  referencing the primary key job_id of the jobs table.
alter table job_history add constraint fk_job_id foreign key(job_id) references jobs(job_id);
```

13. Write a SQL statement to drop the existing foreign key fk_job_id from the job_history table on job_id column which is referencing the job_id of jobs table.

```
alter table job_history drop foreign key fk_job_id;
```

14. Write a SQL statement to add an index named indx_job_id on job_id column in the table job_history.

```
--  14. Write a SQL statement to add an index named indx_job_i
alter table job_history add index indx_job_id(job_id);
```

15. Write a SQL statement to drop the index indx_job_id from job_history table.

```
-- 15. Write a SQL statement to drop the index indx_job_id from job_history table.
alter table job_history drop index indx_job_id;
```

16. Write a query to change the length of the email column in the customers table to VARCHAR(150).

```
502     -- 16. Write a query to change the length of the email colu
503 •   use AlterAssign;
504 •   desc customers;
505 •   alter table customers change email email varchar(150);
506
507
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| last_name | varchar(50) | YES | | NULL | |
| customer_id | int | NO | PRI | NULL | |
| first_name | varchar(50) | YES | | NULL | |
| email | varchar(150) | YES | | NULL | |
| address | varchar(100) | YES | | NULL | |
| phone_number | int | YES | | NULL | |

17. Write a query to add a new column status of type VARCHAR(10) with a default value of 'active' to the employees table.

```
507     -- 17. Write a query to add a new column status of type VARCHAR(10) with a de
508 •   desc employees;
509 •   alter table employees add column status varchar(20) default 'active';
510
511
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| employee_id | int | NO | PRI | NULL | |
| first_name | varchar(50) | YES | | NULL | |
| last_name | varchar(50) | YES | | NULL | |
| age | int | YES | | NULL | |
| salary | decimal(10,2) | YES | | NULL | |
| department_id | int | YES | MUL | NULL | |
| status | varchar(20) | YES | | active | |

18. Write a query to drop the phone_number column from the customers table.

```
10
11      -- 18. Write a query to drop the phone_number column from the cus
12 •    desc customers;
13 •    alter table customers drop phone_number;
14
```

esult Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| last_name | varchar(50) | YES | | NULL | |
| customer_id | int | NO | PRI | NULL | |
| first_name | varchar(50) | YES | | NULL | |
| email | varchar(150) | YES | | NULL | |
| address | varchar(100) | YES | | NULL | |

19. Write a query to modify the department_name column in the departments table to ensure it cannot contain NULL values.

```
515     -- 19. Write a query to modify the department_name column in the depar
516 •   desc departments;
517 •   alter table departments modify department_name varchar(50) not null;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| department_id | int | NO | PRI | NULL | |
| department_name | varchar(50) | NO | | NULL | |

20. Write a query to drop the UNIQUE constraint on the email column in the users table.

```
519 •   select table_name,constraint_name from information_schema.Table_constraints where table_schema=database() and table_name='users';
520 •   alter table users drop constraint uc_email;
521 •   desc users;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| user_id | int | NO | PRI | NULL | |
| username | varchar(50) | YES | | NULL | |
| email | varchar(100) | YES | | NULL | |

21. Write a query to rename the inventory table to product_inventory.

```
522     -- 21. Write a query to rename the inventory table to product_inventory.
523 •   desc inventory;
524 •   alter table inventory rename product_inventory;
525 •   select * from product_inventory;
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

| product_id | product_name | quantity | quality |
|---|---|---|---|
| NULL | NULL | NULL | NULL |

22.Write a query to add a foreign key constraint on the employee_id column of the job_history table, referencing the employee_id column of the employees table, with ON DELETE CASCADE.

```
-- 22.Write a query to add a foreign key constraint on the employee_id column of the job_history table,
-- referencing the employee_id column of the employees table, with ON DELETE CASCADE.
desc job_history;
select table_name,constraint_name from information_schema.Table_constraints where table_schema=database() and table_name='job_history';
alter table job_history add constraint fk foreign key(employee_id) references employees(employee_id);
```

23.Write a query to change the default value of the status column in the employees table to 'inactive'.

```
532     -- 23.Write a query to change the default value of t
533 •   desc employees;
534 •   alter table employees add status varchar(10) default
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| HIRE_DATE | date | NO | | NULL | |
| JOB_ID | varchar(10) | NO | MUL | NULL | |
| SALARY | decimal(8,2) | YES | | NULL | |
| COMMISSION_PCT | decimal(2,2) | YES | | NULL | |
| MANAGER_ID | decimal(6,0) | YES | MUL | NULL | |
| DEPARTMENT_ID | decimal(4,0) | YES | MUL | NULL | |
| status | varchar(10) | YES | | inactive | |

24.Write a query to drop the foreign key constraint named fk_department from the employees table.

```
539 •   alter table employees drop constraint fk_department;
540 •   desc employees;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| EMPLOYEE_ID | decimal(6,0) | NO | PRI | 0 | |
| FIRST_NAME | varchar(20) | YES | | NULL | |
| LAST_NAME | varchar(25) | NO | MUL | NULL | |
| EMAIL | varchar(25) | NO | UNI | NULL | |
| PHONE_NUMBER | varchar(20) | YES | | NULL | |
| HIRE_DATE | date | NO | | NULL | |
| JOB_ID | varchar(10) | NO | MUL | NULL | |

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25.Write a query to move the salary column to be after the last_name column in the employees table.

```
541     -- 25.Write a query to move the salary column to be aft
542 •   desc employees;
543 •   alter table employees modify column salary decimal(8,2)
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| EMPLOYEE_ID | decimal(6,0) | NO | PRI | 0 | |
| FIRST_NAME | varchar(20) | YES | | NULL | |
| LAST_NAME | varchar(25) | NO | MUL | NULL | |
| salary | decimal(8,2) | YES | | NULL | |
| EMAIL | varchar(25) | NO | UNI | NULL | |
| PHONE_NUMBER | varchar(20) | YES | | NULL | |
| HIRE_DATE | date | NO | | NULL | |
| JOB_ID | varchar(10) | NO | MUL | NULL | |

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26.Write a query to remove the default value from the status column in the employees table.

```
541     -- 25.Write a query to move the salary column to be after the last_name col
542 •   desc employees;
543 •   alter table employees modify column salary decimal(8,2) after last_name;
544
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| PHONE_NUMBER | varchar(20) | YES | | NULL | |
| HIRE_DATE | date | NO | | NULL | |
| JOB_ID | varchar(10) | NO | MUL | NULL | |
| COMMISSION_PCT | decimal(2,2) | YES | | NULL | |
| MANAGER_ID | decimal(6,0) | YES | MUL | NULL | |
| DEPARTMENT_ID | decimal(4,0) | YES | MUL | NULL | |
| status | varchar(10) | YES | | NULL | |

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27. Write a query to rename the uc_email constraint on the email column in the users table to unique_email_constraint.

```
-- 27. Write a query to rename the uc_email constraint on the email column in the users table to unique_email_constraint.
alter table users rename index uc_email to unique_email_constraint;
```

28.Write a query to disable the foreign key constraint fk_department on the employees table and then re-enable it.

```
-- 28.Write a query to disable the foreign key constraint
set foreign_key_checks=0;
 set foreign_key_checks=1;
```

29.Write a query to change the age column in the employees table to SMALLINT and allow it to accept NULL values.

```
554     --  29.Write a query to change the age column in the emp
555 •   alter table employees add column age smallint null;
556 •   desc employees;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

| Field | Type | Null | Key | Default | Extra |
|---|---|---|---|---|---|
| HIRE_DATE | date | NO | | NULL | |
| JOB_ID | varchar(10) | NO | MUL | NULL | |
| COMMISSION_PCT | decimal(2,2) | YES | | NULL | |
| MANAGER_ID | decimal(6,0) | YES | MUL | NULL | |
| DEPARTMENT_ID | decimal(4,0) | YES | MUL | NULL | |
| status | varchar(10) | YES | | NULL | |
| age | smallint | YES | | NULL | |

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