

# SQL WRITTEN TEST QUESTIONS AND ANSWERS

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### SQL Written Test Questions and Answers

SQL (Structured Query Language) is a powerful programming language designed for managing and manipulating data in relational databases. It is widely used in various industries for data analysis, reporting, and data management. To assess the proficiency of job candidates in SQL, many companies include SQL written tests as part of their technical screening process.

**Question 1:** Write a query to select the customer name and their total purchase amount from a sales table.

**Answer:**

```
SELECT customer_name, SUM(purchase_amount) AS total_purchase
FROM sales
GROUP BY customer_name;
```

**Question 2:** Write a query to find the top 5 highest-selling products based on their sales quantity.

**Answer:**

```
SELECT product_name, SUM(sales_quantity) AS total_sales
FROM sales
GROUP BY product_name
ORDER BY total_sales DESC
LIMIT 5;
```

**Question 3:** Write a query to create a new table called "orders" with columns for order\_id, customer\_id, product\_id, and order\_date.

**Answer:**

```
CREATE TABLE orders (  
    order_id INT NOT NULL,  
    customer_id INT NOT NULL,  
    product_id INT NOT NULL,  
    order_date DATE NOT NULL,  
    PRIMARY KEY (order_id)  
);
```

**Question 4:** Write a query to find the average sales per day for a given month.

**Answer:**

```
SELECT DATE(order_date) AS order_day, AVG(purchase_amount) AS average_sal  
FROM sales  
WHERE MONTH(order_date) = '2023-03'  
GROUP BY order_day;
```

**Question 5:** Write a query to update the "quantity\_on\_hand" column in the "products" table by deducting the sales quantity from the original quantity on hand.

**Answer:**

```
UPDATE products SET quantity_on_hand = quantity_on_hand - (  
    SELECT SUM(sales_quantity)  
    FROM sales  
    WHERE product_id = products.product_id  
);
```

**How does wind energy work pdf?** The twisting shape means the blades capture wind from root to tip. Sensors send signals to motors and the wind turbine always faces the direction of the wind. The arrangements of coils and magnets in a generator converts the spinning motion from the gearbox into electrical energy.

**What is the theory of wind power plant?** In modern wind turbines, wind rotates the rotor blades, which convert kinetic energy into rotational energy. This rotational

energy is transferred by a shaft which to the generator, thereby producing electrical energy.

**What is the general view of wind energy in the United States?** Wind power is the nation's largest source of renewable energy, with wind turbines installed in all 50 states supplying more than 10% of total U.S electricity and large percentages of most states' energy needs. Keep reading to learn: How wind energy works.

**How much energy comes from wind in the United States?**

**How does wind energy work step by step?** How wind turbines work. Wind turbines use blades to collect the wind's kinetic energy. Wind flows over the blades creating lift (similar to the effect on airplane wings), which causes the blades to turn. The blades are connected to a drive shaft that turns an electric generator, which produces (generates) electricity.

**How do you explain wind energy?** The terms "wind energy" and "wind power" both describe the process by which the wind is used to generate mechanical power or electricity. This mechanical power can be used for specific tasks (such as grinding grain or pumping water) or a generator can convert this mechanical power into electricity.

**What does Elon Musk think about wind turbines?** Wind turbines are fine if out of the way where they aren't an eyesore. They are competitive when paired with batteries. Nuclear fission is a no-brainer. We should have a lot more of it.

**What are the disadvantages of wind energy?**

**What are 5 facts about wind energy?**

**What state is #1 in wind energy?** Texas leads the nation in wind energy generation.

**What is the lifespan of a wind turbine?** The typical life span of a wind turbine is 20 years, with routine maintenance required every six months. Wind turbine power output is variable due to the fluctuation in wind speed; however, when coupled with an energy storage device, wind power can provide a steady power output.

**What is a good wind speed for wind turbines?** Good places for wind turbines are where the annual average wind speed is at least 9 miles per hour (mph)—or 4.0 meters per second (m/s)—for small wind turbines and 13 mph (5.8 m/s) for utility-scale turbines.

**Who is the largest manufacturer of wind turbines in the US?** GE Power is the largest domestic wind turbine manufacturer.

**Which of the following is a bad thing about wind energy?** Wind turbines can be noisy. Wind turbines create both aerodynamic noise of the blades slicing through the air and mechanical noise of the power generating machinery in them.

**How big of a wind turbine is needed to power a house?** A typical home uses approximately 10,649 kilowatt-hours of electricity per year (about 877 kilowatt-hours per month). Depending on the average wind speed in the area, a wind turbine rated in the range of 5–15 kilowatts would be required to make a significant contribution to this demand.

**How does wind work for dummies?** During the day, air above land heats up faster than air above water. Warm air above land expands and rises, and heavier, cooler air rushes in to take its place, creating wind. At night, the winds are reversed because air cools more rapidly over land than it does over water.

**Do wind turbines produce AC or DC?** Do wind turbines produce AC or DC? The wind turbine generators produce alternating current (AC) electricity. Sometimes, a wind turbine may hold a converter that changes AC to DC (Direct Current) and back again, so that the electricity produced matches the frequency and phase of the power grid it connects.

**What is the science behind wind energy?** A wind turbine transforms the mechanical energy of wind into electrical energy. A turbine takes the kinetic energy of a moving fluid, air in this case, and converts it to a rotary motion. As wind moves past the blades of a wind turbine, it moves or rotates the blades. These blades turn a generator.

**How long does a wind turbine take to pay for itself?** 6 years 7 months. It would take about 6 years and 7 months to pay off the initial costs to manufacture and install

the turbine. Afterward, the turbine will generate electricity freely for another 19 years. Of course, O&M and inflation will always be expenses, no matter how long the turbine is in operation.

**How many wind turbines can you put on 100 acres?** Acreage Required for a Wind Farm How many wind turbines can be put on an acre of land? One wind turbine can require up to 80 acres of land, and each turbine will generate around 2.5 MW. Because wind turbines are spaced so far apart, surface activities like farming can still occur on much of the land.

**What are the limitations of wind energy?** These limitations are: 1) The wind has limited speed which lessened the resultant kinetic energy of the wind energy. 2) The speed of the wind is not constant. So the inconsistency in speed is not suitable for getting stable energy.

**What are the disadvantages of wind energy?**

**How does wind energy work when there is no wind?** Secondly, turbines can still keep spinning for hours after winds stop or die down. Lastly, wind turbines will sometimes draw power from the grid to keep moving, especially during the cold winter months when the blades and gears might otherwise freeze.

**What are 5 facts about wind energy?**

**How much wind is needed for wind energy?** Wind turbines require: a minimum wind speed (generally 12-14 km/h) to begin turning and generate electricity. strong winds (50-60 km/h) to generate at full capacity. winds of less than 90 km/h; beyond that speed, the turbines must be stopped to avoid damage.

## **SEO Marketing Strategies: Dominating Google's First Page**

**Q: What are the key SEO marketing strategies to improve search rankings?**

**A:** Essential SEO strategies include:

- Keyword research and optimization
- Content creation and optimization
- Link building and backlink acquisition

- Technical SEO (e.g., site speed, mobile-friendliness)
- Local SEO for targeting local searches

**Q: How can Google Analytics assist in understanding website traffic?**

**A:** Google Analytics provides insights on website traffic, such as:

- Pageviews and sessions
- Visitor demographics and behavior
- Conversion tracking
- Keyword performance
- Referral sources

**Q: What is the role of Webmaster Tools in SEO?**

**A:** Webmaster Tools (now Google Search Console) helps webmasters:

- Monitor their website's health and search performance
- Submit sitemaps for better indexing
- Identify and fix technical issues
- Receive notifications of search engine changes

**Q: How do AdWords and Pay-Per-Click (PPC) campaigns contribute to website promotion?**

**A:** AdWords allows businesses to place paid advertisements on Google's search results pages. PPC campaigns target specific keywords and audience segments, driving traffic to their website and supplementing organic SEO efforts.

**Q: What are some general tips for effective website promotion and search optimization?**

**A:** Tips for website promotion include:

- Create high-quality, original content that provides value to users
- Optimize website speed and user experience

- Build strong relationships and acquire backlinks from reputable websites
- Track results regularly using Google Analytics and make data-driven decisions
- Stay updated on the latest SEO best practices and search engine algorithms

## **Transnational Corporations and Uneven Development in the International Business**

### **Paragraph 1:**

Globalization has led to the emergence of transnational corporations (TNCs), which operate in multiple countries. These corporations often play a significant role in the international business landscape and have the potential to impact economic development both positively and negatively.

### **Paragraph 2:**

One key question is how TNCs contribute to uneven development. Some argue that TNCs exploit developing countries by paying low wages, disregarding environmental regulations, and transferring profits abroad. Others suggest that TNCs bring investment, technology, and employment opportunities, which can stimulate economic growth.

### **Paragraph 3:**

The internationalization of capital has further fueled the debate. When capital flows from developed countries to developing countries, it can create opportunities for economic growth. However, it can also lead to increased inequality if the benefits are not shared equitably.

### **Paragraph 4:**

The impact of TNCs and capital flows on the Third World is complex. While they can contribute to development, they can also exacerbate inequalities. It is essential to consider the specific context and policies in each country to determine the overall impact.

### **Paragraph 5:**

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In conclusion, the relationship between transnational corporations, uneven development, and the internationalization of capital is multifaceted. By understanding the different perspectives and considering the specific circumstances of each case, we can better address the challenges and harness the potential benefits associated with globalization.

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